

GenCore version 5.1.6
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OM nucleic - protein search, using frame_plus_n2p model

Run on: April 14, 2005, 22:58:49 ; Search time 36.5 Seconds
(without alignments)
1411.174 Million cell updates/sec

Title: US-09-873-224A-147
Perfect score: 639
Sequence: 1 atgagcacacttctaacc.....aatgaccccggcgagga 345

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Ygapop 10.0, Ygapext 0.5
Fgapop 6.0, Fgapext 7.0
Delop 6.0, Delext 7.0

Searched: 513545 seqs, 74649064 residues

Total number of hits satisfying chosen parameters: 1027090

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Command line parameters: -MODEL=frame+n2p.model -DEV=xlp
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-LOOPEXT=0 -UNITS=bits -START=1 -END=-1 -MATRIX=blosum62 -TRANS=human40.cdi
-LIST=45 -DOCALIGN=200 -THR SCORE=pct -THR MAX=100 -THR MIN=0 -ALIGN=15
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-FGAPEXT=7 -YGAPOP=10 -YGAPEXT=0.5 -DELOP=6 -DELEXT=7

Database : Issued Patents AA:*
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	617	96.6	115	4	US-09-878-281A-148
2	608	95.1	115	3	US-08-836-075A-50
3	588	92.0	191	2	US-08-290-665A-187
4	588	92.0	191	2	US-08-290-665A-188
5	588	92.0	191	2	US-08-290-665A-190
6	588	92.0	191	5	PCT-US95-10398-187
7	588	92.0	191	5	PCT-US95-10398-188
8	588	92.0	191	5	PCT-US95-10398-189
9	587	91.9	191	2	US-08-290-665A-189
10	587	91.9	191	5	PCT-US95-10398-189
11	574	89.8	191	2	US-08-290-665A-192
12	574	89.8	191	2	US-08-290-665A-193

13	574	89.8	191	2	US-08-290-665A-195	Sequence 195, App
14	574	89.8	191	5	PCT-US95-10398-192	Sequence 192, App
15	574	89.8	191	5	PCT-US95-10398-193	Sequence 193, App
16	574	89.8	191	5	PCT-US95-10398-195	Sequence 195, App
17	573	89.7	120	4	US-08-931-855B-14	Sequence 14, Appl
18	571	89.4	319	3	US-08-836-075A-12	Sequence 12, Appl
19	571	89.4	319	4	US-08-635-886C-199	Sequence 199, App
20	571	89.4	319	4	US-08-974-690C-199	Sequence 199, App
21	570	89.2	191	2	US-08-290-665A-196	Sequence 196, App
22	570	89.2	191	5	PCT-US95-10398-196	Sequence 196, App
23	569	89.0	450	4	US-08-635-886C-181	Sequence 181, App
24	569	89.0	450	4	US-08-974-690C-181	Sequence 181, App
25	569	89.0	2894	2	US-08-466-975A-23	Sequence 23, Appl
26	569	89.0	2894	2	US-08-391-671A-23	Sequence 23, Appl
27	569	89.0	2894	3	US-08-467-902A-23	Sequence 23, Appl
28	569	89.0	2894	3	US-09-275-265-23	Sequence 23, Appl
29	569	89.0	2894	4	US-09-941-611-23	Sequence 23, Appl
30	568	88.9	120	4	US-08-931-855B-10	Sequence 10, Appl
31	568	88.9	182	4	US-10-104-966-2	Sequence 2, Appl
32	568	88.9	191	2	US-08-290-665A-156	Sequence 156, App
33	568	88.9	191	2	US-08-290-665A-157	Sequence 157, App
34	568	88.9	191	2	US-08-290-665A-158	Sequence 158, App
35	568	88.9	191	2	US-08-290-665A-159	Sequence 159, App
36	568	88.9	191	2	US-08-290-665A-160	Sequence 160, App
37	568	88.9	191	2	US-08-290-665A-191	Sequence 191, App
38	568	88.9	191	2	US-08-290-665A-197	Sequence 197, App
39	568	88.9	191	3	US-08-380-160-3	Sequence 3, Appl
40	568	88.9	191	5	PCT-US95-10398-156	Sequence 156, App
41	568	88.9	191	5	PCT-US95-10398-157	Sequence 157, App
42	568	88.9	191	5	PCT-US95-10398-158	Sequence 158, App
43	568	88.9	191	5	PCT-US95-10398-159	Sequence 159, App
44	568	88.9	191	5	PCT-US95-10398-160	Sequence 160, App
45	568	88.9	191	5	PCT-US95-10398-191	Sequence 191, App

ALIGNMENTS

RESULT 1

US-09-878-281A-148
; Sequence 148, Application US/09878281A
; Patent No. 6762024
; GENERAL INFORMATION:
; APPLICANT: Innogenetics N.V.
; TITLE OF INVENTION: New sequences of hepatitis C virus genotypes for diagnosis, prophylaxis and therapy
; FILE REFERENCE: 35
; CURRENT APPLICATION NUMBER: US/09/878,281A
; CURRENT FILING DATE: 2001-06-12
; NUMBER OF SEQ ID NOS: 284
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 148
; LENGTH: 115
; TYPE: PRT
; ORGANISM: hepatitis C virus
US-09-878-281A-148

Alignment Scores:
Pred. No.: 6.48e-51 Length: 115
Score: 617.00 Matches: 115
Percent Similarity: 100.00% Conservatives: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 96.56% Indels: 0
DB: 4 Gaps: 0

US-09-873-224A-147 (1-345) x US-09-878-281A-148 (1-115)

QY	1	ATGAGCACACTTCCTTAAACCAAGAAAAACCAAAAGAAAAACCAACCCCGGCCACAGG	60
Db	1	MetSerThrLeuProLysProGlnArgLysThrLysArgAanThrAsnProGlyHisArg	20
QY	61	ACGTTAAGTTCACAGCGCGGTTCGATCGTTGGTGGAGTTTACGTCTACCCACAGG	120
Db	21	ThrLeuSerSerGlnAlaAlaValArgSerLeuValGluPheThrCysTyHisAlaGly	40


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; LENGTH: 191 amino acids
; TYPE: amino acid
; STRANDEDNESS: unknown
; TOPOLOGY: unknown
; ORIGINAL SOURCE:
; ORGANISM: hom sapiens
; INDIVIDUAL ISOLATE: S52
US-08-290-665A-188

Alignment Scores:
Pred. No.: 4,1e-48
Score: 588.00
Percent Similarity: 96.52%
Best Local Similarity: 93.91%
Query Match: 92.02%
DB: 2

US-09-873-224A-147 (1-345) x US-08-290-665A-188 (1-191)

Qy 1 ATGAGCACATTCTCTAAACACCAAGAAAAACCAAAAGAAACACCAA-CCCCGGCCACAG 59
Db 1 MetSerThrLeuProLysProGlnArgLysThrLysArgAsnThrIleArgArgProGln 20
Qy 60 GAGCTTAAGTTCACGCGCGGTCAGATCGCTTGGTGAGTTTACGTCTACACGCAGG 119
Db 21 AspValLysPheProGlyGlyGlyGlnIleValGlyGlyValTyrValLeuProArg 40
Qy 120 GGCCCCAGTTGGGTGTGCGTGCAGTGCAGCAAGACTTCCGAGCGGTCCCAACTCGCACT 179
Db 41 GlyProArgLeuGlyValArgAlaThrArgLysThrSerGluArgSerGlnProArgGly 60
Qy 180 AGCGCGCAACCCATCCCCAGGCGCGCCGAAACCGAGGCGAGGTCTCTGGGCTCAGCCCGGG 239
Db 61 ArgArgGlnProIleProLysAlaArgSerGluGlyArgSerTrpAlaGlnProGly 80
Qy 240 TACCTTGGCCCTATATGGAAATGAGGGCTGCGGGTGGGAGGGTGGCTCCTGTCCCGC 299
Db 81 TyrProTrpProLeuTyrGlyAsnGluGlyCysGlyTrpAlaGlyTrpLeuLeuSerPro 100
Qy 300 CGCGGCTCTCGCCCGTCGTGGGGCCCCAAATGACCCCGCGCAGG 344
Db 101 ArgGlySerArgProSerTrpGlyProAsnAspProArgArgArg 115

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240 TACCTGGCCCCCTATATGAGGAATGAGGGCTGCGGTGGCGAGGGTGCTCTGTCCTCCG 299
 81 TyrProtrpProLeuTyrGlyAsnGluGlyCysGlyTTPalaGlyTTrpLeuLeuSerPro 100
 300 CGGGGTCTCGCCGTCGTGGGGCCCAAAATGACCCCGGCGCAGG 344
 101 ArgGlySerArgProSerTTPGlyProAsnAspProArgArgArg 115

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240 TACCTTGGCCCTATATGGAATGAGGCTGCGGTCGGGCGGCGAGGTGGCTCCTGTCCCCG 299
Db 81 TyrProtrProLeuTyrGlyAsnGluGlyCysGlyTrpAlaGlyTrpLeuLeuSerPro 100
Qy 300 CGGGGCTCTCGCCCGTCTGTCGGGGCCCAAATGACCCCCCGCGCAGG 344
Db 101 ArgGlySerArgProSerTrpGlyProAsnAspProArgArgG 115
RESULT 5
US-08-290-665A-190
; Sequence 190, Application US/08290665A
; Patent No. 5882852
; GENERAL INFORMATION:
; APPLICANT: BUKH, J., MILLER, R.H. AND
; APPLICANT: PURCELL, R.H.
; TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED
; TITLE OF INVENTION: AMINO ACID SEQUENCES OF THE ENVELOPE 1 AND
; TITLE OF INVENTION: CORE GENES OF ISOLATES OF HEPATITIS C VIRUS
; TITLE OF INVENTION: AND THE USE OF REAGENTS DERIVED FROM THESE
; TITLE OF INVENTION: SEQUENCES IN DIAGNOSTIC METHODS AND VACCINES
; NUMBER OF SEQUENCES: 263
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: MORGAN & FINNEGAN
; STREET: 345 PARK AVENUE
; CITY: NEW YORK
; STATE: NEW YORK
; COUNTRY: USA
; ZIP: 10154
; COMPUTER READABLE FORM:
; MEDIUM TYPE: FLOPPY DISK
; COMPUTER: IBM PC COMPATIBLE
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: WORDPERFECT 5.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/290,665A
; FILING DATE: 15-AUG-1994
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:

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; COMPUTER: IBM PC COMPATIBLE
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: WORDPERFECT 5.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: PCT/US95/10398
; FILING DATE: 15-AUG-1995
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/086,428
; FILING DATE: 29 JUNE 1993
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/290/665
; FILING DATE: 15 AUGUST 1994
; ATTORNEY/AGENT INFORMATION:
; NAME: RICHARD W. BORK
; REGISTRATION NUMBER: 36,459
; REFERENCE/DOCKET NUMBER: 2026-4116
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (212) 758-4800
; TELEFAX: (212) 751-6849
; TELEX: 421792
; INFORMATION FOR SEQ ID NO: 187:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 191 amino acids
; TYPE: amino acid
; STRANDEDNESS: unknown
; TOPOLOGY: unknown
; ORGANISM: hom sapiens
; INDIVIDUAL ISOLATE: HK10
PCT-US95-10398-187

Alignment Scores:
Pred. No.: 4,1e-48 Length: 191
Score: 588.00 Matches: 108
Percent Similarity: 96.52% Conservative: 3
Best Local Similarity: 93.91% Mismatches: 4
Query Match: 92.02% Indels: 1
DB: 5 Gaps: 0

US-09-873-224A-147 (1-345) x PCT-US95-10398-187 (1-191)

Qy 1 ATGAGCACATTCTATAACCAAGAAAAACCAAAAGAAACACCAA-CCCCGGCCACAG 59
Db 1 Met-Ser-Thr-Leu-Pro-Lys-Pro-Gln-Arg-Lys-Thr-Lys-Arg-Asn-Thr-Ile-Arg-Arg-Pro-Gln 20
Qy 60 GAGCTTAAGTTCACAGCGGGGTCAGATCGTTGGTGAGTTTACGTCTACCAACGAGG 119
Db 21 Asp-Val-Lys-Phe-Pro-Gly-Gly-Gln-Ile-Val-Gly-Gly-Val-Tyr-Val-Leu-Pro-Arg 40
Qy 120 GGCCCCCAGTGGTGTCGTGTCAGTCGCGAAGACTTCCGAGCGGTCCGAACCTCGCAGT 179
Db 41 Gly-Pro-Arg-Leu-Gly-Val-Arg-Ala-Thr-Arg-Lys-Thr-Ser-Glu-Arg-Ser-Gln-Pro-Arg-Gly 60
Qy 180 AGCGGCCAACCCATCCCGAGGCGCGCGAACCAGCAGGCGAGGTCTCTGGGCTCAGCCCGGG 239
Db 61 Arg-Arg-Gln-Pro-Ile-Pro-Lys-Ala-Arg-Ser-Glu-Gly-Arg-Ser-Trp-Ala-Gln-Pro-Gly 80
Qy 240 TACCTTGGCCCCCTATATGGAATAGAGGCTCGCGGTGGGCGAGGTGGCTCTCTGTCCCGC 299
Db 81 Tyr-Pro-Trp-Pro-Leu-Tyr-Gly-Asn-Glu-Gly-Cys-Gly-Trp-Ala-Gly-Trp-Leu-Leu-Ser-Pro 100
Qy 300 CGCGGTCTCTCGCCGTCGTGGGCGCCAAATGACCCCCGGCGCAGG 344
Db 101 Arg-Gly-Ser-Arg-Pro-Ser-Trp-Gly-Pro-Asn-Asp-Pro-Arg-Arg 115

RESULT 7
PCT-US95-10398-188
; Sequence 188, Application PC/TUS9510398
; GENERAL INFORMATION:
; APPLICANT: BURKH, J., MILLER, R. H. AND
; APPLICANT: PURCELL, R. H.
; TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED

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Qy	60	GACGTTAAGTTC	CCAGCGCGGT	CAGATCGT	TGGAGTTT	ACGTCT	ACCACG	CAGG	119
Db	21	AspVal	lysPhe	ProGly	GlyGly	Glnile	ValGly	GlyVal	TrpVal
Qy	120	GGCCCCCAGT	TGGGTGGT	CGCTCAGT	CGCGAAGACT	TCCGAGCGGT	CGCAACT	CGCAGT	179
Db	41	GlyPro	ArgLeu	GlyVal	ArgAla	ThrArg	LysThr	SerGlu	ArgSer
Qy	180	AGCGCGCAAC	CCATCC	CCAGGCGG	CGCGAACC	GAGGCGAG	GCTCCT	GGGCTCAG	CCCGG
Db	61	ArgArg	GlnPro	ilePro	lysal	alaArg	SerGlu	GlyArg	SerTrp
Qy	240	TACCTTGGC	CCCTAT	TATGGAA	TAGGGCT	CGGGTGGG	CAGGCTCG	CTCTCT	CCCCG
Db	81	TyrPro	Trip	ProLeu	TyrGly	AsnGlu	GlyCys	GlyTrp	AlaGly
Qy	300	CGCGGCTCT	CGCGCGT	CGTGGGG	CCCCAA	TACACCC	CGGCGCAGG	344	
Db	101	ArgGly	SerArg	ProSer	TrpGly	ProAsn	AspPro	ArgArg	115
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US-08-290-665A-189									
; Sequence 189, Application US/08290665A									
; Patent No. 5882852									
; GENERAL INFORMATION:									
; APPLICANT: BUKH, J., MILLER, R.H. AND									
; APPLICANT: PURCELL, R.H.									
; TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED									
; TITLE OF INVENTION: AMINO ACID SEQUENCES OF THE ENVELOPE 1 AND									
; TITLE OF INVENTION: CORE GENES OF ISOLATES OF HEPATITIS C VIRUS									
; TITLE OF INVENTION: AND THE USE OF REAGENTS DERIVED FROM THESE									
; TITLE OF INVENTION: SEQUENCES IN DIAGNOSTIC METHODS AND VACCINES									
; NUMBER OF SEQUENCES: 263									
; CORRESPONDENCE ADDRESS:									
; ADDRESSEE: MORGAN & FINNEGAN									
; STREET: 345 PARK AVENUE									
; CITY: NEW YORK									
; STATE: NEW YORK									
; COUNTRY: USA									
; ZIP: 10154									
; COMPUTER READABLE FORM:									
; MEDIUM TYPE: FLOPPY DISK									
; COMPUTER: IBM PC COMPATIBLE									
; OPERATING SYSTEM: PC-DOS/MS-DOS									
; SOFTWARE: WORDPERFECT 5.1									
; CURRENT APPLICATION DATA:									
; APPLICATION NUMBER: US/08/290,665A									
; FILING DATE: 15-AUG-1994									
; CLASSIFICATION: 435									
; ATTORNEY/AGENT INFORMATION:									
; NAME: RICHARD W. BORK									
; REGISTRATION NUMBER: 36,459									
; REFERENCE/DOCKET NUMBER: 2026-4116									
; TELECOMMUNICATION INFORMATION:									
; TELEPHONE: (212) 758-4800									
; TELEFAX: (212) 751-6849									
; TELEX: 421792									
; INFORMATION FOR SEQ ID NO: 189:									
; SEQUENCE CHARACTERISTICS:									
; LENGTH: 191 amino acids									
; TYPE: amino acid									
; STRANDEDNESS: unknown									
; TOPOLOGY: unknown									
; ORIGINAL SOURCE:									
; ORGANISM: homosapiens									
; INDIVIDUAL ISOLATE: S2									
US-08-290-665A-189									
Alignment Scores:									
Pred. No.: 5,11e-48 Length: 191									
Score: 587.00 Matches: 107									
Percent Similarity: 96.52% Conservative: 4									

SEQUENCE CHARACTERISTICS:
LENGTH: 191 amino acids
TYPE: amino acid
STRANDEDNESS: unknown
TOPOLOGY: unknown
ORIGINAL SOURCE:
ORGANISM: homosapiens
INDIVIDUAL ISOLATE: S2
PCT-US95-10398-189

Alignment Scores:
Pred. No.: 5,11e-48 Length: 191
Score: 587.00 Matches: 107
Percent Similarity: 56.52% Conservative: 4
Best Local Similarity: 93.04% Mismatches: 4
Query Match: 91.86% Indels: 1
DB: 5 Gaps: 0

US-09-873-224A-147 (1-345) x PCT-US95-10398-189 (1-191)

Qy 1 ATGAGCACCTTCTTAACCAAGAAAAACCAAAAGAAACACCAAC-CCCGGCCACAG 59
Db 1 MetSerThrLeuProLysProGlnArgLysThrLysArgAsnThrIleArgArgProGln 20
Qy 60 GACGTTAAGTCCACAGCGCGCGTCAGATCGTGTGGAGTTTACGTCTACCAACGACG 119
Db 21 AspIleLysPheProGlyGlyGlnIleValGlyGlyValLeuProArgArg 40
Qy 120 GCGCCCAAGTGGGTGTCGTCAGTGCAGAGCTCCGAGCGGTCCGACCTCGCAGT 179
Db 41 GlyProArgLeuGlyValArgAlaThrArgLysThrSerGluArgSerGlnProArgGly 60
Qy 180 AGGCGCCCAACCATCCCGAGCGCGCGCAACCGAGCGGTCCTGGGCTCAGCCCGG 239
Db 61 ArgArgGlnProIleProLysAlaArgArgSerGluGlyArgSerTrpAlaGlnProGly 80
Qy 240 TACCTTGGCCCTATATGGAATGAGGCTCGCGGTGGAGGAGGTGCTCTGTCCCG 299
Db 81 TyrProTrpProLeuTyrGlyAsnGluGlyCysGlyTrpAlaGlyTrpLeuLeuSerPro 100
Qy 300 CGCGCTCTCGCGTCTGGGGCCAAATGACCCCGCGCGCAGG 344
Db 101 ArgGlySerArgProSerTrpGlyProAsnAspProArgArgArg 115

RESULT 11

US-08-290-665A-192
Sequence 192, Application US/08290665A
Patent No. 5882852

GENERAL INFORMATION:
APPLICANT: BUKH, J., MILLER, R.H. AND
APPLICANT: PURCELL, R.H.
TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED
TITLE OF INVENTION: AMINO ACID SEQUENCES OF THE ENVELOPE 1 AND
TITLE OF INVENTION: CORE GENES OF ISOLATES OF HEPATITIS C VIRUS
TITLE OF INVENTION: AND THE USE OF REAGENTS DERIVED FROM THESE
TITLE OF INVENTION: SEQUENCES IN DIAGNOSTIC METHODS AND VACCINES
NUMBER OF SEQUENCES: 263
CORRESPONDENCE ADDRESS:
ADDRESSEE: MORGAN & FINNEGAN
STREET: 345 PARK AVENUE
CITY: NEW YORK
STATE: NEW YORK
COUNTRY: USA
ZIP: 10154
COMPUTER READABLE FORM:
MEDIUM TYPE: FLOPPY DISK
COMPUTER: IBM PC COMPATIBLE
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: WORDPERFECT 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/290.665A
FILING DATE: 15-AUG-1994
CLASSIFICATION: 435

ATTORNEY/AGENT INFORMATION:
NAME: RICHARD W. BORK
REGISTRATION NUMBER: 36,459
REFERENCE/DOCKET NUMBER: 2026-4116
TELECOMMUNICATION INFORMATION:
TELEPHONE: (212) 758-4800
TELEFAX: (212) 751-6849
TELEX: 421792
INFORMATION FOR SEQ ID NO: 192:
SEQUENCE CHARACTERISTICS:
LENGTH: 191 amino acids
TYPE: amino acid
STRANDEDNESS: unknown
TOPOLOGY: unknown
ORIGINAL SOURCE:
ORGANISM: homosapiens
INDIVIDUAL ISOLATE: Z8
US-08-290-665A-192

Alignment Scores:
Pred. No.: 8.86e-47 Length: 191
Score: 574.00 Matches: 106
Percent Similarity: 95.65% Conservative: 4
Best Local Similarity: 92.17% Mismatches: 5
Query Match: 89.83% Indels: 1
DB: 2 Gaps: 0

US-09-873-224A-147 (1-345) x US-08-290-665A-192 (1-191)

Qy 1 ATGAGCACCTTCTTAACCAAGAAAAACCAAAAGAAACACCAACCC-CGCGCCACAG 59
Db 1 MetSerThrAsnProLysProGlnArgLysThrLysArgAsnThrAsnArgProMet 20
Qy 60 GACGTTAAGTCCACAGCGCGGTGTCAGATCGTGTGGAGTTTACGTCTACCAACGACG 119
Db 21 AspValLysPheProGlyGlyGlnIleValGlyGlyValLeuLeuProArgArg 40
Qy 120 GCGCCCAAGTGGGTGTCGTCAGTGCAGAACTTCCGAGCGGTCCCAACCTCGCAGT 179
Db 41 GlyProArgLeuGlyValArgAlaThrArgLysThrSerGluArgSerGlnProArgGly 60
Qy 180 AGGCGCCCAACCATCCCGAGCGCGCGCAACCGAGCGGTCCTGGGCTCAGCCCGG 239
Db 61 ArgArgGlnProIleProLysAlaArgArgSerGluGlyArgSerTrpAlaGlnProGly 80
Qy 240 TACCTTGGCCCTATATGGAATGAGGCTCGCGGTGGAGGAGGTGCTCTGTCCCG 299
Db 81 TyrProTrpProLeuTyrGlyAsnGluGlyCysGlyTrpAlaGlyTrpLeuLeuSerPro 100
Qy 300 CGCGCTCTCGCGTCTGGGGCCAAATGACCCCGCGCGCAGG 344
Db 101 ArgGlySerArgProSerTrpGlyProAsnAspProArgArgArg 115

RESULT 12

US-08-290-665A-193
Sequence 193, Application US/08290665A
Patent No. 5882852

GENERAL INFORMATION:
APPLICANT: BUKH, J., MILLER, R.H. AND
APPLICANT: PURCELL, R.H.
TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED
TITLE OF INVENTION: AMINO ACID SEQUENCES OF THE ENVELOPE 1 AND
TITLE OF INVENTION: CORE GENES OF ISOLATES OF HEPATITIS C VIRUS
TITLE OF INVENTION: AND THE USE OF REAGENTS DERIVED FROM THESE
TITLE OF INVENTION: SEQUENCES IN DIAGNOSTIC METHODS AND VACCINES
NUMBER OF SEQUENCES: 263
CORRESPONDENCE ADDRESS:
ADDRESSEE: MORGAN & FINNEGAN
STREET: 345 PARK AVENUE
CITY: NEW YORK
STATE: NEW YORK
COUNTRY: USA
ZIP: 10154

COMPUTER READABLE FORM:
MEDIUM TYPE: FLOPPY DISK
COMPUTER: IBM PC COMPATIBLE
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: WORDPERFECT 5.1
CURRENT APPLICATION DATA:
FILING DATE: 15-AUG-1994
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: RICHARD W. BORK
REGISTRATION NUMBER: 36,459
REFERENCE/DOCKET NUMBER: 2026-4116
TELECOMMUNICATION INFORMATION:
TELEPHONE: (212) 758-4800
TELEFAX: (212) 751-6849
TELEX: 421792
INFORMATION FOR SEQ ID NO: 193:
SEQUENCE CHARACTERISTICS:
LENGTH: 191 amino acids
TYPE: amino acid
STRANDEDNESS: unknown
TOPOLOGY: unknown
ORGANISM: homosapiens
INDIVIDUAL ISOLATE: Z1
US-08-290-665A-193

Alignment Scores:
Pred. No.: 8,86e-47 Length: 191
Score: 574.00 Matches: 106
Percent Similarity: 95.65% Conservative: 4
Best Local Similarity: 92.17% Mismatches: 5
Query Match: 89.83% Indels: 1
DB: 2 Gaps: 0

US-09-873-224A-147 (1-345) x US-08-290-665A-193 (1-191)

QY 1 ATGAGCACACTTCTTAACACACAAAGAAACCAACCAACCAACCC-CGGCCACAG 59
Db 1 MetSerThrAsnProLysProGlnArgLysThrLysArgAsnThrAsnArgProMet 20
QY 60 GACGTTAAGTTCACGCGCGCGTCAGATCGTTGGTGAGTTTACGTGTACACACGAG 119
Db 21 AspValLysPheProGlyGlyGlnIleValGlyValTyrLeuLeuProArgArg 40
QY 120 GCGCCCGGTCGGTGTGCGTCAGTGGCAAGACTTCGAGCGGTGCGCAACCTCGCAGT 179
Db 41 GlyProArgLeuGlyValArgAlaIleArgLysThrSerGluArgSerGlnProArgGly 60
QY 180 AGCGCCCAACCCATCCCGCGCGCGCGCAACCGAGCGGAGTCTCGGCTCAGCCCGG 239
Db 61 ArgArgGlnProLeuProLysAlaArgSerGluGlyArgSerTrpAlaGlnProGly 80
QY 240 TACCTTGGCCCTATATGGAATGAGGCTGCGGTGGCGAGGTGGCTCTGTCTCCCG 299
Db 81 TyrProTrpProLeuTyrGlyAsnGluGlyCysGlyTrpAlaGlyTrpLeuLeuSerPro 100
QY 300 CGCGGCTCTCGCCCGTGTGGGCGCCCAATGACCCCGCGGAGG 344
Db 101 ArgGlySerArgProSerTrpGlyProAsnAspProArgArg 115

RESULT 13
US-08-290-665A-195
Sequence 195, Application US/08290665A
Patent No. 5882852
GENERAL INFORMATION:
APPLICANT: BORK, J., MILLER, R. H. AND
APPLICANT: PURCELL, R.H.
TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED
APPLY OF INVENTION: AMINO ACID SEQUENCES OF THE ENVELOPE 1 AND
TITLE OF INVENTION: CORE GENES OF ISOLATES OF HEPATITIS C VIRUS
TITLE OF INVENTION: AND THE USE OF REAGENTS DERIVED FROM THESE

TITLE OF INVENTION: SEQUENCES IN DIAGNOSTIC METHODS AND VACCINES
NUMBER OF SEQUENCES: 263
CORRESPONDENCE ADDRESS:
ADDRESSEE: MORGAN & FINNEGAN
STREET: 345 PARK AVENUE
CITY: NEW YORK
STATE: NEW YORK
COUNTRY: USA
ZIP: 10154
COMPUTER READABLE FORM:
MEDIUM TYPE: FLOPPY DISK
COMPUTER: IBM PC COMPATIBLE
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: WORDPERFECT 5.1
CURRENT APPLICATION DATA:
FILING DATE: 15-AUG-1994
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: RICHARD W. BORK
REGISTRATION NUMBER: 36,459
REFERENCE/DOCKET NUMBER: 2026-4116
TELECOMMUNICATION INFORMATION:
TELEPHONE: (212) 758-4800
TELEFAX: (212) 751-6849
TELEX: 421792
INFORMATION FOR SEQ ID NO: 195:
SEQUENCE CHARACTERISTICS:
LENGTH: 191 amino acids
TYPE: amino acid
STRANDEDNESS: unknown
TOPOLOGY: unknown
ORIGINAL SOURCE:
ORGANISM: homosapiens
INDIVIDUAL ISOLATE: Z6
US-08-290-665A-195

Alignment Scores:
Pred. No.: 8,86e-47 Length: 191
Score: 574.00 Matches: 106
Percent Similarity: 95.65% Conservative: 4
Best Local Similarity: 92.17% Mismatches: 5
Query Match: 89.83% Indels: 1
DB: 2 Gaps: 0

US-09-873-224A-147 (1-345) x US-08-290-665A-195 (1-191)

QY 1 ATGAGCACACTTCTTAACACACAAAGAAACCAACCAACCAACCC-CGGCCACAG 59
Db 1 MetSerThrAsnProLysProGlnArgLysThrLysArgAsnThrAsnArgProMet 20
QY 60 GACGTTAAGTTCACGCGCGCGTCAGATCGTTGGTGAGTTTACGTGTACACACGAG 119
Db 21 AspValLysPheProGlyGlyGlnIleValGlyValTyrLeuLeuProArgArg 40
QY 120 GCGCCCGGTCGGTGTGCGTCAGTGGCAAGACTTCGAGCGGTGCGCAACCTCGCAGT 179
Db 41 GlyProArgLeuGlyValArgAlaIleArgLysThrSerGluArgSerGlnProArgGly 60
QY 180 AGCGCCCAACCCATCCCGCGCGCGCGCAACCGAGCGGAGTCTCGGCTCAGCCCGG 239
Db 61 ArgArgGlnProLeuProLysAlaArgSerGluGlyArgSerTrpAlaGlnProGly 80
QY 240 TACCTTGGCCCTATATGGAATGAGGCTGCGGTGGCGAGGTGGCTCTGTCTCCCG 299
Db 81 TyrProTrpProLeuTyrGlyAsnGluGlyCysGlyTrpAlaGlyTrpLeuLeuSerPro 100
QY 300 CGCGGCTCTCGCCCGTGTGGGCGCCCAATGACCCCGCGGAGG 344
Db 101 ArgGlySerArgProSerTrpGlyProAsnAspProArgArg 115

RESULT 14
PCT-US95-10398-192


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; Sequence 192, Application PC/TUS9510398
; GENERAL INFORMATION:
; APPLICANT: BUKH, J., MILLER, R.H. AND
; APPLICANT: PURCELL, R.H.
; TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED
; TITLE OF INVENTION: AMINO ACID SEQUENCES OF THE ENVELOPE 1 AND
; TITLE OF INVENTION: CORE GENES OF ISOLATES OF HEPATITIS C VIRUS
; TITLE OF INVENTION: AND THE USE OF REAGENTS DERIVED FROM THESE
; TITLE OF INVENTION: SEQUENCES IN DIAGNOSTIC METHODS AND VACCINES
; NUMBER OF SEQUENCES: 263
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: MORGAN & FINNEGAN
; STREET: 345 PARK AVENUE
; CITY: NEW YORK
; STATE: NEW YORK
; COUNTRY: USA
; ZIP: 10154
; COMPUTER READABLE FORM:
; MEDIUM TYPE: FLOPPY DISK
; COMPUTER: IBM PC COMPATIBLE
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: WORDPERFECT 5.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: PCT/US95/10398
; FILING DATE: 15-AUG-1995
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/086,428
; FILING DATE: 29 JUNE 1993
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/290/665
; FILING DATE: 15 AUGUST 1994
; NAME: RICHARD W. BORK
; ATTORNEY/AGENT INFORMATION:
; REGISTRATION NUMBER: 36,459
; REFERENCE/DOCKET NUMBER: 2026-4116
; TELEPHONE: (212) 751-6849
; TELEFAX: (212) 751-6849
; TELEX: 421792
; INFORMATION FOR SEQ ID NO: 192:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 191 amino acids
; TYPE: amino acid
; STRANDEDNESS: unknown
; TOPOLOGY: unknown
; ORGANISM: homosapiens
; INDIVIDUAL ISOLATE: Z8
PCT-US95-10398-192

Alignment Scores:
Pred. No.: 8,86e-47 Length: 191
Score: 574.00 Matches: 106
Percent Similarity: 95.65% Conservative: 4
Best Local Similarity: 92.17% Mismatches: 5
Query Match: 89.83% Indels: 1
DB: 5 Gaps: 0

US-09-873-224A-147 (1-345) x PCT-US95-10398-192 (1-191)

Qy 1 ATGAGCACATTCCTTAAACCAAGAAAAACCAAGAAACCAACCC-CGGCCACAG 59
Db 1 MetSerThrAsnProLysProGlnArgLysThrLysArgAsnThrAsnArgProMet 20

Qy 60 GACGTAGTATCCAGCGCGGTCAGATCGTTGGTGCAGTTACGTCTACCGCAGG 119
Db 21 AspValLysPheProGlyGlyGlnIleValGlyGlyValTyrLeuLeuProArgArg 40

Qy 120 GCGCCCAAGTTGGGTGGTCGTGCAGTCCGAGACTTCGAGCGGTGCAACCTCGCAGT 179
Db 41 GlyProArgLeuGlyValArgAlaThrArgLysThrSerGluArgSerGlnProArgGly 60

; Sequence 193, Application PC/TUS9510398
; GENERAL INFORMATION:
; APPLICANT: BUKH, J., MILLER, R.H. AND
; APPLICANT: PURCELL, R.H.
; TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED
; TITLE OF INVENTION: AMINO ACID SEQUENCES OF THE ENVELOPE 1 AND
; TITLE OF INVENTION: CORE GENES OF ISOLATES OF HEPATITIS C VIRUS
; TITLE OF INVENTION: AND THE USE OF REAGENTS DERIVED FROM THESE
; TITLE OF INVENTION: SEQUENCES IN DIAGNOSTIC METHODS AND VACCINES
; NUMBER OF SEQUENCES: 263
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: MORGAN & FINNEGAN
; STREET: 345 PARK AVENUE
; CITY: NEW YORK
; STATE: NEW YORK
; COUNTRY: USA
; ZIP: 10154
; COMPUTER READABLE FORM:
; MEDIUM TYPE: FLOPPY DISK
; COMPUTER: IBM PC COMPATIBLE
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: WORDPERFECT 5.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: PCT/US95/10398
; FILING DATE: 15-AUG-1995
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/086,428
; FILING DATE: 29 JUNE 1993
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/290/665
; FILING DATE: 15 AUGUST 1994
; NAME: RICHARD W. BORK
; ATTORNEY/AGENT INFORMATION:
; REGISTRATION NUMBER: 36,459
; REFERENCE/DOCKET NUMBER: 2026-4116
; TELEPHONE: (212) 751-6849
; TELEFAX: (212) 751-6849
; TELEX: 421792
; INFORMATION FOR SEQ ID NO: 193:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 191 amino acids
; TYPE: amino acid
; STRANDEDNESS: unknown
; TOPOLOGY: unknown
; ORGANISM: homosapiens
; INDIVIDUAL ISOLATE: Z1
PCT-US95-10398-193

Alignment Scores:
Pred. No.: 8,86e-47 Length: 191
Score: 574.00 Matches: 106
Percent Similarity: 95.65% Conservative: 4
Best Local Similarity: 92.17% Mismatches: 5
Query Match: 89.83% Indels: 1
DB: 5 Gaps: 0

Qy 180 AGCGCCCAACCCATCCCGAGCGCGCCGGAACCGAGCGAGGTCTGGGCTCAGCCCGG 239
Db 61 ArgArgGlnProLysAlaArgArgSerGluGlyArgSerTrpAlaGlnProGly 80

Qy 240 TACCTTTGGCCCTATATGGAATGAGGCTGCGGGTGGGAGGAGGTGCTCTGTCCCG 299
Db 81 TyrProTrpProLeuTyrGlyAsnGluGlyCysGlyTrpAlaGlyTrpLeuLeuSerPro 100

Qy 300 CGCGCTCTCGCCCGTCTGTCGGGCCCAATGACCCCGCGCGCAGG 344
Db 101 ArgGlySerArgProSerTrpGlyProAsnAspProArgArgArg 115

RESULT 15
PCT-US95-10398-193
; Sequence 193, Application PC/TUS9510398
; GENERAL INFORMATION:
; APPLICANT: BUKH, J., MILLER, R.H. AND
; APPLICANT: PURCELL, R.H.
; TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED
; TITLE OF INVENTION: AMINO ACID SEQUENCES OF THE ENVELOPE 1 AND
; TITLE OF INVENTION: CORE GENES OF ISOLATES OF HEPATITIS C VIRUS
; TITLE OF INVENTION: AND THE USE OF REAGENTS DERIVED FROM THESE
; TITLE OF INVENTION: SEQUENCES IN DIAGNOSTIC METHODS AND VACCINES
; NUMBER OF SEQUENCES: 263
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: MORGAN & FINNEGAN
; STREET: 345 PARK AVENUE
; CITY: NEW YORK
; STATE: NEW YORK
; COUNTRY: USA
; ZIP: 10154
; COMPUTER READABLE FORM:
; MEDIUM TYPE: FLOPPY DISK
; COMPUTER: IBM PC COMPATIBLE
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: WORDPERFECT 5.1
; CURRENT APPLICATION DATA:
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; FILING DATE: 15-AUG-1995
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/086,428
; FILING DATE: 29 JUNE 1993
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/290/665
; FILING DATE: 15 AUGUST 1994
; NAME: RICHARD W. BORK
; ATTORNEY/AGENT INFORMATION:
; REGISTRATION NUMBER: 36,459
; REFERENCE/DOCKET NUMBER: 2026-4116
; TELEPHONE: (212) 751-6849
; TELEFAX: (212) 751-6849
; TELEX: 421792
; INFORMATION FOR SEQ ID NO: 193:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 191 amino acids
; TYPE: amino acid
; STRANDEDNESS: unknown
; TOPOLOGY: unknown
; ORGANISM: homosapiens
; INDIVIDUAL ISOLATE: Z1
PCT-US95-10398-193

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US-09-873-224A-147 (1-345) x PCT-US95-10398-193 (1-191)

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Qy 1 ATGAGCACACTTCCTAAACCAACAAAGAAACCAACCAACCAACCC-CGGCCACAG 59
Db 1 MetSerThrAsnProLysProGlnArgLysThrLysArgAsnThrAsnArgProMet 20
Qy 60 GAGCTTAAGTTCCAGCGCGGTACAGATCGTTGGTGGAGTTTACGTGTACCAACGAGG 119
Db 21 AspValLysPheProGlyGlyGlyGlnIleValGlyGlyValTyrLeuLeuProArgArg 40
Qy 120 GGGCCCCAGTTGGGTGTGCGTGCAGTGCAGCGCAAGACTTCCAGCGGTGCGCAACCTCGCAGT 179
Db 41 GlyProArgLeuGlyValAlaAlaArgLysThrSerGluArgSerGlnProArgGly 60
Qy 180 AGGCGCAACCCATCCCGCGCGCGCGGAAACCGAGGGCAGGTCTCGGGCTCAGCCCGG 239
Db 61 ArgArgGlnProIleProLysAlaArgArgSerGluGlyArgSerTrpAlaGlnProGly 80
Qy 240 TACCCCTGGCCCTATATGGGAATGAGGGCTGCGGGTGGCGAGGTGGCTCTCTGTCCCG 299
Db 81 TyrProTrpProLeuTyrGlyAsnGluGlyCysGlyTrpAlaGlyTrpLeuLeuSerPro 100
Qy 300 CGCGGCTCTCGCCGTCGTGGGCGCCAAATGACCCCGGCGCAGG 344
Db 101 ArgGlySerArgProSerTrpGlyProAsnAspProArgArgArg 115

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Job time : 38.5 secs

GenCore version 5.1.6
Copyright (c) 1993 - 2005 CompuGen Ltd.

OM nucleic - protein search, using frame_plus_n2p model

Run on: April 15, 2005, 00:18:39 ; Search time 71 Seconds
(without alignments)
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Title: US-09-873-224A-147

Perfect score: 639

Sequence: 1 atgggcacactcttaaac.....aaatgaccccgccgagga 345

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Ygapop 10.0 , Ygapext 0.5
Fgapop 6.0 , Fgapext 7.0
Delop 6.0 , Delext 7.0

Searched: 1421835 seqs, 332370683 residues

Total number of hits satisfying chosen parameters: 2843670

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
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-TRANS=human40.cdi -LIST=45 -DOCALIGN=200 -THR SCORE=pct -THR MAX=100
-THR MIN=0 -ALIGN=15 -MODE=LOCAL -OUTFMT=ptc -NORM=ext -HEAPSIZ=500 -MINLEN=0
-MAXLEN=2000000000 -USER=US09873224 @CGN 1 1 130 @runat 14042005 111944_16205
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Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

Result Query

SUMMARIES

No.	Score	Match	Length	DB	ID	Description
1	617	96.6	115	10	US-09-873-224-148	Sequence 148, Appl
2	608	95.1	115	9	US-09-851-138-50	Sequence 50, Appl
3	608	95.1	115	10	US-09-899-046-148	Sequence 148, Appl
4	608	95.1	115	10	US-09-878-281-148	Sequence 148, Appl
5	581	90.9	189	15	US-10-450-649-9	Sequence 9, Appl
6	575	90.0	235	15	US-10-365-620-58	Sequence 58, Appl
7	575	90.0	235	17	US-10-912-969-60	Sequence 60, Appl
8	575	90.0	249	15	US-10-365-620-54	Sequence 54, Appl
9	575	90.0	249	17	US-10-912-969-56	Sequence 56, Appl
10	575	90.0	459	15	US-10-365-620-60	Sequence 60, Appl
11	575	90.0	459	17	US-10-912-969-62	Sequence 62, Appl
12	575	90.0	459	17	US-10-913-171-41	Sequence 41, Appl
13	575	90.0	473	15	US-10-365-620-56	Sequence 56, Appl
14	575	90.0	473	17	US-10-912-969-58	Sequence 58, Appl
15	575	90.0	473	17	US-10-913-171-39	Sequence 39, Appl
16	575	90.0	1892	17	US-10-612-884-6	Sequence 6, Appl
17	571	89.4	130	14	US-10-268-569-19	Sequence 19, Appl
18	571	89.4	319	9	US-09-851-138-12	Sequence 12, Appl
19	571	89.4	319	15	US-10-651-165-199	Sequence 199, App
20	569	89.0	450	15	US-10-651-165-181	Sequence 181, App
21	569	89.0	2894	9	US-09-941-611-23	Sequence 23, Appl
22	569	89.0	2894	14	US-10-044-995-23	Sequence 23, Appl
23	569	89.0	2894	16	US-10-822-871-23	Sequence 23, Appl
24	568	88.9	151	14	US-10-292-129-14	Sequence 14, Appl
25	568	88.9	182	9	US-09-929-955-2	Sequence 2, Appl
26	568	88.9	182	13	US-10-104-966-2	Sequence 2, Appl
27	568	88.9	182	15	US-10-719-619-2	Sequence 2, Appl
28	568	88.9	319	15	US-10-651-165-217	Sequence 217, App
29	568	88.9	450	15	US-10-651-165-179	Sequence 179, App
30	568	88.9	450	15	US-10-651-165-180	Sequence 180, App
31	568	88.9	3011	9	US-09-742-659-4	Sequence 4, Appl
32	568	88.9	3011	9	US-09-952-572-9	Sequence 9, Appl
33	568	88.9	3011	9	US-09-929-955-1	Sequence 1, Appl
34	568	88.9	3011	9	US-09-747-419-20	Sequence 20, Appl
35	568	88.9	3011	10	US-09-891-894-3	Sequence 3, Appl
36	568	88.9	3011	13	US-10-104-966-1	Sequence 1, Appl
37	568	88.9	3011	14	US-10-259-275-20	Sequence 20, Appl
38	568	88.9	3011	14	US-10-184-150-3	Sequence 3, Appl
39	568	88.9	3011	15	US-10-328-997-3	Sequence 3, Appl
40	568	88.9	3011	15	US-10-189-359-14	Sequence 14, Appl
41	568	88.9	3011	15	US-10-296-734-406	Sequence 406, App
42	568	88.9	3011	15	US-10-719-619-1	Sequence 1, Appl
43	568	88.9	3012	9	US-09-238-076-2	Sequence 2, Appl
44	568	88.9	3012	10	US-09-995-937-2	Sequence 2, Appl
45	568	88.9	3012	10	US-09-917-563-2	Sequence 2, Appl

ALIGNMENTS

RESULT 1

US-09-873-224-148

; Sequence 148, Application US/09873224

; Publication No. US20030064360A1

; GENERAL INFORMATION:

; APPLICANT: {Unknown}

; TITLE OF INVENTION: New sequences of hepatitis C virus

; NUMBER OF SEQUENCES: 270

; CORRESPONDENCE ADDRESS:

; STREET: Industriepark Zwijnaarde 7, box 4

; CITY: Ghent

; COUNTRY: Belgium

; ZIP: B-9052

; COMPUTER READABLE FORM:

; MEDIUM TYPE: Floppy disk

; COMPUTER: IBM PC compatible

; OPERATING SYSTEM: PC-DOS/MS-DOS

; SOFTWARE: PatentIn Release #1.0, Version #1.25 (EPO)

; CURRENT APPLICATION DATA:

; APPLICATION NUMBER: US/09/873,224

; FILING DATE: 05-Jun-2001

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; CLASSIFICATION: <Unknown>
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/362,455
; FILING DATE: <Unknown>
; ATTORNEY/AGENT INFORMATION:
; NAME: Immunogenetics sa.
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 00 32 9 241 07 11
; TELEFAX: 00 32 9 241 07 99
; INFORMATION FOR SEQ ID NO: 148:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 115 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; SEQUENCE DESCRIPTION: SEQ ID NO: 148:
US-09-873-224-148
Alignment Scores:
Pred. No.: 1.34e-45 Length: 115
Score: 617.00 Matches: 115
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 96.56% Indels: 0
DB: 10 Gaps: 0

US-09-873-224A-147 (1-345) x US-09-873-224-148 (1-115)
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Db 1 MetSerThrLeuProLysProGlnArgLysThrLysArgAsnThrAsnProGlyHisArg 20
QY 61 ACCTTAAGTTCCACGCGCGGTGAGATCTTGGTGGAGTTTACGTCTACCAACGAGG 120
Db 21 ThrLeuSerSerGlnAlaAlaValArgSerLeuValGluPheThrCysTyrHisAlaGly 40
QY 121 GCCCCAGTTGGGTGTCGTCAGTGCAGAGCTCCGAGCGGTGCAACCTCGCAGTA 180
Db 41 AlaProSerTrpValCysValGlnCysAlaArgLeuProSerGlyArgAsnLeuAlaVal 60
QY 181 GCGGCCAACCCATCCACGCGCGCGCGAACCAGGCGAGTCTCGGTCTACCCCGGT 240
Db 61 GlyAlaAsnProSerProGlyArgAlaGluProArgAlaGlyProGlyLeuSerProGly 80
QY 241 ACCCTTGGCCCTATATGGAATGAGGCTCGCGGTGGGCGAGGTGGCTCTCTCCCGC 300
Db 81 ThrLeuGlyProTyrMetGlyMetArgAlaAlaGlyGlnGlySerCysProArg 100
QY 301 GCGGCTCTCGCCGCTGCTGGGGCCCAATGACCCCGCGCAGGA 345
Db 101 AlaAlaLeuAlaArgGlyAlaGlnMetThrProGlyAlaGly 115

RESULT 2
US-09-851-138-50
; Sequence 50, Application US/09851138
; Publication No. US20020183508A1
; GENERAL INFORMATION:
; APPLICANT: MAERTENS, GEERT
; TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES
; AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC
; AGENTS
; NUMBER OF SEQUENCES: 207
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: ARNOLD, WHITE & DURKEE
; STREET: P.O. BOX 4433
; CITY: HOUSTON
; STATE: TEXAS
; COUNTRY: USA
; ZIP: 77210-4433
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; OPERATING SYSTEM: IBM PC compatible
; SOFTWARE: PatentIn Release #1.0, Version #1.25 (EPO)
```

```
;
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Microsoft Word 6.0 / ASCII text output
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/851,138
; FILING DATE: 09-May-2001
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/836,075
; FILING DATE: <Unknown>
; APPLICATION NUMBER: EP 94870166.9
; FILING DATE: 21 Oct 1994
; APPLICATION NUMBER: EP 95870076.7
; FILING DATE: 28 Jun 1995
; ATTORNEY/AGENT INFORMATION:
; NAME: KAMMERER, PATRICIA A.
; REGISTRATION NUMBER: 29,775
; REFERENCE/DOCKET NUMBER: INNS:004
; INFORMATION FOR SEQ ID NO: 50:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 115 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; SEQUENCE DESCRIPTION: SEQ ID NO: 50:
US-09-851-138-50
Alignment Scores:
Pred. No.: 8.23e-45 Length: 115
Score: 608.00 Matches: 114
Percent Similarity: 99.13% Conservative: 0
Best Local Similarity: 99.13% Mismatches: 1
Query Match: 95.15% Indels: 1
DB: 9 Gaps: 0

US-09-873-224A-147 (1-345) x US-09-851-138-50 (1-115)
QY 1 ATGAGCACACTTCTTAACACCAAGAAACCAAAAGAAACCAACACCC-CGCGCCACAG 59
Db 1 MetSerThrLeuProLysProGlnArgLysThrLysArgAsnThrAsn**ArgProGln 20
QY 60 GACGTTAAGTTCCACGCGCGGTGAGATCTGTTGGTGGAGTTTACGTCTACCAACGAGG 119
Db 21 AspValLysPheProGlyGlyGlnIleValGlyValTyrValLeuProArgArg 40
QY 120 GCGCCCGAGTGGGTGTCAGTGCAGTGCAGACCTCCGAGCGGTCCGCAACCTCCAGT 179
Db 41 GlyProGlnLeuGlyValArgAlaValArgLysThrSerGluArgSerGlnProArgSer 60
QY 180 AGCGCCAAACCCATCCCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGG 239
Db 61 ArgArgGlnProIleProArgAlaArgThrGluGlyArgSerTrpAlaGlnProGly 80
QY 240 TACCCTTGGCCCTATATGGAATGAGGCTGCGGTGGGCGAGGTGGCTCTCTCTCTCTCCCG 299
Db 81 TyrProTrpProLeuTyrGlyAsnGluGlyCysGlyTrpAlaGlyTrpLeuLeuSerPro 100
QY 300 CCGCGCTCTCGCCGCTGCGGTGGGCGCGCGCGCGCGCGCGCGCGCGCGCGCGG 344
Db 101 ArgGlySerArgProSerTrpGlyProAsnAspProArgArg 115

RESULT 3
US-09-899-046-148
; Sequence 148, Application US/09899046
; Publication No. US20030008274A1
; GENERAL INFORMATION:
; APPLICANT:
; TITLE OF INVENTION: New sequences of hepatitis C virus
; TITLE OF INVENTION: genotypes for diagnosis, prophylaxis and therapy.
; NUMBER OF SEQUENCES: 270
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25 (EPO)
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; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/899,046
; FILING DATE:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/362,455
; FILING DATE:
; INFORMATION FOR SEQ ID NO: 148:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 115 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-09-899-046-148

Alignment Scores:
Pred. No.: 8,23e-45 Length: 115
Score: 608.00 Matches: 114
Percent Similarity: 99.13% Conservative: 0
Best Local Similarity: 99.13% Mismatches: 1
Query Match: 95.15% Indels: 1
DB: 10 Gaps: 0

US-09-873-224A-147 (1-345) x US-09-899-046-148 (1-115)

QY 1 ATGAGCACACTTCTTAACCAACAAAGAAAAACCAAAACCAACCAACCC-CGGCCACAG 59
Db 1 MetSerThrLeuProLysProGlnArgLysThrLysArgAsnThrAsn***ArgProGln 20
QY 60 GACGTTAAGTTCCACAGCGCGGTGCAGATCGTTGGTGGAGTTAGTCTGCTACCGCAGG 119
Db 21 AspValLysPheProGlyGlyGlnIleValGlyValLysValLeuProArg 40
QY 120 GSCCCCCAGTTGGGTGTCGTCAGTGCAGAGACTTCCGAGCGGTGCACACCTCGCAGT 179
Db 41 GlyProGlnLeuGlyValArgAlaValArgLysThrSerGluArgSerGlnProArgSer 60
QY 180 AGGCGCCAAACCATCCCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGG 239
Db 61 ArgArgGlnProIleProArgAlaArgArgThrGluGlyArgSerTrpAlaGlnProGly 80
QY 240 TACCTTGGCCCTATATGGGAATCAGGCTCGCGGTGGCGAGGTGCTCTGTCTCCCG 299
Db 81 TyrProTrpProLeuTyrglyAsnGluGlyCysGlyTrpAlaGlyTrpLeuLeuSerPro 100
QY 300 CGCGGCTCTCGCCCTATGGAATCAGGCTCGCGGTGGCGAGGTGCTCTGTCTCCCG 344
Db 101 ArgGlySerArgProSerTrpGlyProAsnAspProArgArgArg 115

RESULT 4
US-09-878-281-148
; Sequence 148, Application US/09878281
; Publication No. US20030032005A1
; GENERAL INFORMATION:
; APPLICANT:
; TITLE OF INVENTION: New sequences of hepatitis C virus
; FILE REFERENCE: U 014666-0
; CURRENT APPLICATION NUMBER: US/09/878,281
; CURRENT FILING DATE: 2003-06-16
; PRIOR APPLICATION NUMBER: PCT/AT02/00046
; PRIOR FILING DATE: 2002-02-11
; PRIOR APPLICATION NUMBER: A 272/2001 AT
; PRIOR FILING DATE: 2001-02-21
; NUMBER OF SEQ ID NOS: 9
; SOFTWARE: Patent in version 3.1
; SEQ ID NO: 9
; LENGTH: 189
; TYPE: PRT
; ORGANISM: Hepatitis C Virus 3
US-10-450-649-9

Alignment Scores:
Pred. No.: 1.97e-42 Length: 189
Score: 581.00 Matches: 106
Percent Similarity: 96.49% Conservative: 4
Best Local Similarity: 92.98% Mismatches: 4
Query Match: 90.92% Indels: 1
DB: 15 Gaps: 0

US-09-873-224A-147 (1-345) x US-10-450-649-9 (1-189)

QY 4 AGCACACTTCTTAACCAACAAAGAAAAACCAAAACCAACCAACCC-CGGCCACAGG 62
Db 1 SerThrLeuProLysProGlnArgLysThrLysArgAsnThrIleArgArgProGlnAsp 20
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QY 63 GTTAAGTCCAGCGGGGTCAGATCGTTGGTGGAGTTTACGCTACACGCGAGGGC 122
Db 21 vallysPheProGlyGlyGlyLeuValGlyGlyValTyValleuProArgGly 40
QY 123 CCCAGTTGGGTGTCGCTGAGTCGCGAAGACTTCCGAGCGGTCCGCAACCTCGCAGTAGG 182
Db 41 ProArgLeuGlyValArgAlaThrArgLysThrSerGluArgSerGlnProArgGlyArg 60
QY 183 CGCAACCATCCAGCGGGCGCGGACCGAGGCGAGGTCCTGGGTCTAGCCCGGGTAC 242
Db 61 ArgGlnProIleProLysAlaArgSerGluGlyArgSerTrpAlaGlnProGlyTyr 80
QY 243 CTTGGCCCTTATATGGGAATGAGGCTGCGGGTGGCAGGTCCTGCTCCCGCGC 302
Db 81 ProTrpProLeuTyGlyAsnGluGlyCysGlyTrpAlaGlyTrpLeuLeuSerProArg 100
QY 303 GGCTCTCGCCGCTGTCGGGGCCCAATGACCCCGGCGCAGG 344
Db 101 GlySerArgProSerTrpGlyProAsnAspProArgArg 114
RESULT 6
US-10-365-620-58
; Sequence 58, Application US/10365620
; Publication No. US20040001853A1
; GENERAL INFORMATION:
; APPLICANT: George, Rajan
; APPLICANT: Tyrell, Lorne
; APPLICANT: No. US20040001853A1jaim, Antoine
; TITLE OF INVENTION: Chimeric Antigens for Eliciting An Immune Response
; FILE REFERENCE: 656.0016
; CURRENT APPLICATION NUMBER: US/10/365,620
; PRIOR FILING DATE: 2003-02-13
; PRIOR FILING DATE: 2003-02-13
; PRIOR FILING DATE: 2003-11-05
; PRIOR FILING DATE: 2003-11-05
; PRIOR FILING DATE: 2002-06-20
; NUMBER OF SEQ ID NOS: 76
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 58
; LENGTH: 235
; TYPE: PRT
; ORGANISM: HCV Core
US-10-365-620-58
Alignment Scores:
Pred. No.: 6,7e-42 Length: 235
Score: 575.00 Matches: 105
Percent Similarity: 94.78% Conservative: 4
Best Local Similarity: 91.30% Mismatches: 6
Query Match: 89.98% Indels: 1
DB: 15 Gaps: 0
US-09-873-224A-147 (1-345) x US-10-365-620-58 (1-235)
QY 1 ATGAGCACACTTCTTAACACCAAGAAACCAAAAGAAACCAACACCC-CCGCCACAG 59
Db 31 MetSerThrAsnProLysProGlnArgLysThrLysArgAsnThrAsnArgProGln 50
QY 60 GAGCTTAAGTTCCAGCGGGGTGTCAGATCGTTGGTGGAGTTTACGCTACACGCGAG 119
Db 51 AspValLysPheProGlyGlyGlnIleValGlyValTyValleuProArgArg 70
QY 120 GGCCCCCAGTTGGGTGTCGCTGAGTCGCGAAGACTTCCGAGCGGTCCGCAACCTCGCAGT 179
Db 71 GlyProArgLeuGlyValArgAlaThrArgLysThrSerGluArgSerGlnProArgGly 90
QY 180 AGCGGCCAACCCATCCCGAGGCGCGCGGACCGAGGCGAGGTCCTGGGTCTAGCCCGGG 239
Db 51 AspValLysPheProGlyGlyGlnIleValGlyValTyValleuProArgArg 70
QY 120 GGCCCCCAGTTGGGTGTCGCTGAGTCGCGAAGACTTCCGAGCGGTCCGCAACCTCGCAGT 179
Db 71 GlyProArgLeuGlyValArgAlaThrArgLysThrSerGluArgSerGlnProArgGly 90
QY 180 AGCGGCCAACCCATCCCGAGGCGCGCGGACCGAGGCGAGGTCCTGGGTCTAGCCCGGG 239
Db 91 ArgArgGlnProIleProLysAlaArgProGluGlyArgTrpAlaGlnProGly 110
QY 240 TACCTTGGCCCTTATATGGGAATGAGGCTGCGGGTGGCAGGTCGCTCCGTCCCGC 299
Db 101 GlySerArgProSerTrpGlyProAsnAspProArgArg 114
RESULT 8
US-10-365-620-54

Db 111 TyrProTrpProLeuTyGlyAsnGluGlyCysGlyTrpAlaGlyTrpLeuLeuSerPro 130
QY 300 CGGGCTCTCGCCGCTGTCGGGGCCCAATGACCCCGGCGCAGG 344
Db 131 ArgGlySerArgProSerTrpGlyProThrAspProArgArg 145
RESULT 7
US-10-912-969-60
; Sequence 60, Application US/10912969
; Publication No. US20050013828A1
; GENERAL INFORMATION:
; APPLICANT: Virexx Research, Inc.
; APPLICANT: George, Rajan
; APPLICANT: Tyrell, Lorne
; APPLICANT: Noujaim, Antoine
; APPLICANT: Wang, Dakun
; APPLICANT: Ma, Allan
; TITLE OF INVENTION: Chimeric Antigens for Eliciting An Immune Response
; FILE REFERENCE: 17506-007001
; CURRENT APPLICATION NUMBER: US/10/912,969
; CURRENT FILING DATE: 2004-08-05
; PRIOR FILING DATE: 2002-06-20
; PRIOR FILING DATE: 2002-11-05
; PRIOR FILING DATE: 2002-11-05
; PRIOR FILING DATE: 2003-02-13
; PRIOR FILING DATE: 2003-02-13
; PRIOR FILING DATE: 2004-02-14
; NUMBER OF SEQ ID NOS: 79
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 60
; LENGTH: 235
; TYPE: PRT
; ORGANISM: Hepatitis C virus
US-10-912-969-60
Alignment Scores:
Pred. No.: 6,7e-42 Length: 235
Score: 575.00 Matches: 105
Percent Similarity: 94.78% Conservative: 4
Best Local Similarity: 91.30% Mismatches: 6
Query Match: 89.98% Indels: 1
DB: 17 Gaps: 0
US-09-873-224A-147 (1-345) x US-10-912-969-60 (1-235)
QY 1 ATGAGCACACTTCTTAACACCAAGAAACCAAAAGAAACCAACACCC-CCGCCACAG 59
Db 31 MetSerThrAsnProLysProGlnArgLysThrLysArgAsnThrAsnArgProGln 50
QY 60 GAGCTTAAGTTCCAGCGGGGTGTCAGATCGTTGGTGGAGTTTACGCTACACGCGAG 119
Db 51 AspValLysPheProGlyGlyGlnIleValGlyValTyValleuProArgArg 70
QY 120 GGCCCCCAGTTGGGTGTCGCTGAGTCGCGAAGACTTCCGAGCGGTCCGCAACCTCGCAGT 179
Db 71 GlyProArgLeuGlyValArgAlaThrArgLysThrSerGluArgSerGlnProArgGly 90
QY 180 AGCGGCCAACCCATCCCGAGGCGCGCGGACCGAGGCGAGGTCCTGGGTCTAGCCCGGG 239
Db 91 ArgArgGlnProIleProLysAlaArgProGluGlyArgTrpAlaGlnProGly 110
QY 240 TACCTTGGCCCTTATATGGGAATGAGGCTGCGGGTGGCAGGTCGCTCCGTCCCGC 299
Db 111 TyrProTrpProLeuTyGlyAsnGluGlyCysGlyTrpAlaGlyTrpLeuLeuSerPro 130
QY 300 CGGGCTCTCGCCGCTGTCGGGGCCCAATGACCCCGGCGCAGG 344
Db 131 ArgGlySerArgProSerTrpGlyProThrAspProArgArg 145
RESULT 8
US-10-365-620-54

; Sequence 54, Application US/10365620
; Publication No. US20040001853A1
; GENERAL INFORMATION:
; APPLICANT: George, Rajan
; APPLICANT: Tyrrell, Lorne
; APPLICANT: No. US20040001853A1ajaim, Antoine
; TITLE OF INVENTION: Chimeric Antigens for Eliciting An Immune Response
; FILE REFERENCE: 656.0016
; CURRENT APPLICATION NUMBER: US/10/365,620
; PRIOR FILING DATE: 2003-02-13
; PRIOR APPLICATION NUMBER: US60/423,578
; PRIOR FILING DATE: 2003-11-05
; PRIOR FILING DATE: 2004-02-14
; PRIOR FILING DATE: 2004-02-14
; NUMBER OF SEQ ID NOS: 79
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 54
; LENGTH: 249
; TYPE: PRT
; ORGANISM: ORF of HCV Core Protein
US-10-365-620-54

Alignment Scores:
Pred. No.: 6,73e-42 Length: 249
Score: 575.00 Matches: 105
Percent Similarity: 94.78% Conservative: 4
Best Local Similarity: 91.30% Mismatches: 6
Query Match: 89.98% Indels: 1
DB: 15 Gaps: 0

US-09-873-224A-147 (1-345) x US-10-365-620-54 (1-249)

QY 1 ATGAGCACATTCCTTAACCAAGAAAAACCAAAACCAACCAACCC-CGGCCACAG 59
Db 31 MetSerThrAsnProLysProGlnArgLysThrLysArgAsnThrAsnArgProGln 50
QY 60 GACGTTAAGTCCAGCGCGGTCCAGATCGTTGGTGGAGTTACGTCTACACGACGAG 119
Db 51 AspValLysPheProGlyGlyGlnIleValGlyGlyValTyLeuLeuProArg 70
QY 120 GCGCCCAAGTGGGTGTCGTGCGAGTCCGAGACTTCCGAGCGGTCCCAACCTCGCAGT 179
Db 71 GlyProArgLeuGlyValArgAlaThrArgLysThrSerGluArgSerGlnProArgGly 90
QY 180 AGGCGCCAAACCCATCCAGCGCGCGCAACCGAGGCGAGTCTCTGGCTCAGCCCGG 239
Db 91 ArgArgGlnProIleProLysAlaArgProGluGlyArgThrTrpAlaGlnProGly 110
QY 240 TACCTTGGCCCTATATGGGAATGAGGCTCGCGGTGGCGAGGTGCTCTGTCCCG 299
Db 111 TyrProTrpProLeuTyGlyAsnGluGlyCysGlyTrpAlaGlyTrpLeuLeuSerPro 130
QY 300 CGCGCTCTCGCCCTGTCGTGGGGCCCAATGACCCCGCGGAGG 344
Db 131 ArgGlySerArgProSerTrpGlyProThrAspProArgArg 145

RESULT 9
US-10-912-969-56
; Sequence 56, Application US/10912969
; Publication No. US20050013828A1
; GENERAL INFORMATION:
; APPLICANT: Virex Research, Inc.
; APPLICANT: George, Rajan
; APPLICANT: Tyrrell, Lorne
; APPLICANT: Noujaim, Antoine
; APPLICANT: Wang, Dakun
; APPLICANT: Ma, Allan
; TITLE OF INVENTION: Chimeric Antigens for Eliciting An Immune Response
; FILE REFERENCE: 17506-007001
; CURRENT APPLICATION NUMBER: US/10/912,969
; PRIOR FILING DATE: 2004-08-05
; PRIOR APPLICATION NUMBER: US 60/390,564
; PRIOR FILING DATE: 2002-06-20

; PRIOR APPLICATION NUMBER: US 60/423,578
; PRIOR FILING DATE: 2002-11-05
; PRIOR APPLICATION NUMBER: US 10/365,620
; PRIOR FILING DATE: 2003-02-13
; PRIOR APPLICATION NUMBER: PCT/IB04/00373
; PRIOR FILING DATE: 2004-02-14
; NUMBER OF SEQ ID NOS: 79
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 56
; LENGTH: 249
; TYPE: PRT
; ORGANISM: Hepatitis C virus
US-10-912-969-56

Alignment Scores:
Pred. No.: 6,73e-42 Length: 249
Score: 575.00 Matches: 105
Percent Similarity: 94.78% Conservative: 4
Best Local Similarity: 91.30% Mismatches: 6
Query Match: 89.98% Indels: 1
DB: 17 Gaps: 0

US-09-873-224A-147 (1-345) x US-10-912-969-56 (1-249)

QY 1 ATGAGCACATTCCTTAACCAAGAAAAACCAAAACCAACCAACCC-CGGCCACAG 59
Db 31 MetSerThrAsnProLysProGlnArgLysThrLysArgAsnThrAsnArgProGln 50
QY 60 GACGTTAAGTCCAGCGCGGTCCAGATCGTTGGTGGAGTTACGTCTACACGACGAG 119
Db 51 AspValLysPheProGlyGlyGlnIleValGlyGlyValTyLeuLeuProArg 70
QY 120 GCGCCCAAGTGGGTGTCGTGCGAGTCCGAGACTTCCGAGCGGTCCCAACCTCGCAGT 179
Db 71 GlyProArgLeuGlyValArgAlaThrArgLysThrSerGluArgSerGlnProArgGly 90
QY 180 AGGCGCCAAACCCATCCAGCGCGCGCAACCGAGGCGAGTCTCTGGCTCAGCCCGG 239
Db 91 ArgArgGlnProIleProLysAlaArgProGluGlyArgThrTrpAlaGlnProGly 110
QY 240 TACCTTGGCCCTATATGGGAATGAGGCTCGCGGTGGCGAGGTGCTCTGTCCCG 299
Db 111 TyrProTrpProLeuTyGlyAsnGluGlyCysGlyTrpAlaGlyTrpLeuLeuSerPro 130
QY 300 CGCGCTCTCGCCCTGTCGTGGGGCCCAATGACCCCGCGGAGG 344
Db 131 ArgGlySerArgProSerTrpGlyProThrAspProArgArg 145

RESULT 10
US-10-365-620-60
; Sequence 60, Application US/10365620
; Publication No. US20040001853A1
; GENERAL INFORMATION:
; APPLICANT: George, Rajan
; APPLICANT: Tyrrell, Lorne
; APPLICANT: No. US20040001853A1ajaim, Antoine
; TITLE OF INVENTION: Chimeric Antigens for Eliciting An Immune Response
; FILE REFERENCE: 656.0016
; CURRENT APPLICATION NUMBER: US/10/365,620
; CURRENT FILING DATE: 2003-02-13
; PRIOR APPLICATION NUMBER: US60/423,578
; PRIOR FILING DATE: 2003-11-05
; PRIOR APPLICATION NUMBER: 60/390,564
; PRIOR FILING DATE: 2002-06-20
; NUMBER OF SEQ ID NOS: 76
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 60
; LENGTH: 459
; TYPE: PRT
; ORGANISM: HCV Core-TBD protein
US-10-365-620-60

Alignment Scores:

Pred. No.: 7,04e-42 Length: 459
 Score: 575.00 Matches: 105
 Percent Similarity: 94.78% Conservative: 4
 Best Local Similarity: 91.30% Mismatches: 6
 Query Match: 89.98% Indels: 1
 DB: 15 Gaps: 0

US-09-873-224A-147 (1-345) x US-10-365-620-60 (1-459)

QY 1 ATGAGCACACTTCTTAACACCAAGAAACCAAAAGAAACCAACACCC-CGSCCAG 59
 |||||
 Db 31 MetSerThrAsnProLysProGlnArgLysThrLysArgAsnThrAsnArgProGln 50
 |||||
 QY 60 GACGTTAAAGTTCCAGCGCGGTGCAGATCGTGGTGGAGTTACGTGTACACGAGG 119
 |||||
 Db 51 AspValLysPheProGlyGlyGlnIleValGlyValTyrLeuLeuProArg 70
 |||||
 QY 120 GGCCCCCAGTTGGGTGCGTGCAGTCCGCAAGACTTCCGAGCGGTCCGCACTCGCAGT 179
 |||||
 Db 71 GlyProArgLeuGlyValArgAlaThrArgLysThrSerGluArgSerGlnProArgGly 90
 |||||
 QY 180 AGCGCCCAACCCATCCAGCGCGCGCGCAACCGAGCGAGTCTGGGCTCAGCCCGG 239
 |||||
 Db 91 ArgArgGlnProLysProLysAlaArgProGluGlyArgThrTrpAlaGlnProGly 110
 |||||
 QY 240 TACCTTGGCCCTATATGGAATGAGGCTGCGGTGGCGAGGTGGTCTCTGTCCTCCCG 299
 |||||
 Db 111 TyrProTrpProLeuTyrGlyAsnGluGlyCysGlyTrpAlaGlyTrpLeuLeuSerPro 130
 |||||
 QY 300 CGCGGCTCTCGCCGTCGTGGGCGCCCAATGACCCCGCGCAGG 344
 |||||
 Db 131 ArgGlySerArgProSerTrpGlyProThrAspProArgArg 145

RESULT 11

US-10-912-969-62
 ; Sequence 62, Application US/10912969
 ; Publication No. US20050013828A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Virexx Research, Inc.
 ; APPLICANT: George, Rajan
 ; APPLICANT: Tyrrell, Lorne
 ; APPLICANT: Noujaim, Antoine
 ; APPLICANT: Wang, Dakun
 ; APPLICANT: Ma, Allan
 ; TITLE OF INVENTION: Chimeric Antigens for Eliciting An Immune Response
 ; FILE REFERENCE: 17506-007001
 ; CURRENT APPLICATION NUMBER: US/10/912,969
 ; PRIOR FILING DATE: 2004-08-05
 ; PRIOR APPLICATION NUMBER: US 60/390,564
 ; PRIOR FILING DATE: 2002-06-20
 ; PRIOR APPLICATION NUMBER: US 60/423,578
 ; PRIOR FILING DATE: 2002-11-05
 ; PRIOR APPLICATION NUMBER: US 10/365,620
 ; PRIOR FILING DATE: 2003-02-13
 ; PRIOR APPLICATION NUMBER: PCT/IB04/00373
 ; PRIOR FILING DATE: 2004-02-14
 ; NUMBER OF SEQ ID NOS: 79
 ; SOFTWARE: Patent in version 3.2
 ; SEQ ID NO 62
 ; LENGTH: 459
 ; TYPE: PRT
 ; ORGANISM: Artificial
 ; FEATURE:
 ; OTHER INFORMATION: Synthetic Construct
 US-10-912-969-62

Alignment Scores:
 Pred. No.: 7,04e-42 Length: 459
 Score: 575.00 Matches: 105
 Percent Similarity: 94.78% Conservative: 4
 Best Local Similarity: 91.30% Mismatches: 6
 Query Match: 89.98% Indels: 1
 DB: 17 Gaps: 0

US-09-873-224A-147 (1-345) x US-10-912-969-62 (1-459)

QY 1 ATGAGCACACTTCTTAACACCAAGAAACCAAAAGAAACCAACACCC-CGSCCAG 59
 |||||
 Db 31 MetSerThrAsnProLysProGlnArgLysThrLysArgAsnThrAsnArgProGln 50
 |||||
 QY 60 GACGTTAAAGTTCCAGCGCGGTGCAGATCGTGGTGGAGTTACGTGTACACGAGG 119
 |||||
 Db 51 AspValLysPheProGlyGlyGlnIleValGlyValTyrLeuLeuProArg 70
 |||||
 QY 120 GGCCCCCAGTTGGGTGCGTGCAGTCCGCAAGACTTCCGAGCGGTCCGCACTCGCAGT 179
 |||||
 Db 71 GlyProArgLeuGlyValArgAlaThrArgLysThrSerGluArgSerGlnProArgGly 90
 |||||
 QY 180 AGCGCCCAACCCATCCAGCGCGCGCGCAACCGAGCGAGTCTGGGCTCAGCCCGG 239
 |||||
 Db 91 ArgArgGlnProLysProLysAlaArgProGluGlyArgThrTrpAlaGlnProGly 110
 |||||
 QY 240 TACCTTGGCCCTATATGGAATGAGGCTGCGGTGGCGAGGTGGTCTCTGTCCTCCCG 299
 |||||
 Db 111 TyrProTrpProLeuTyrGlyAsnGluGlyCysGlyTrpAlaGlyTrpLeuLeuSerPro 130
 |||||
 QY 300 CGCGGCTCTCGCCGTCGTGGGCGCCCAATGACCCCGCGCAGG 344
 |||||
 Db 131 ArgGlySerArgProSerTrpGlyProThrAspProArgArg 145

RESULT 12

US-10-913-171-41
 ; Sequence 41, Application US/10913171
 ; Publication No. US20050031628A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Virexx Research, Inc.
 ; APPLICANT: George, Rajan
 ; APPLICANT: Tyrrell, Lorne
 ; APPLICANT: Noujaim, Antoine
 ; APPLICANT: Wang, Dakun
 ; APPLICANT: Ma, Allan
 ; TITLE OF INVENTION: CHIMERIC ANTIGENS FOR BREAKING HOST TOLERANCE TO FOREIGN ANTIGENS
 ; FILE REFERENCE: 17506-006001
 ; CURRENT APPLICATION NUMBER: US/10/913,171
 ; CURRENT FILING DATE: 2004-08-05
 ; PRIOR APPLICATION NUMBER: US 60/493,449
 ; PRIOR FILING DATE: 2004-08-08
 ; NUMBER OF SEQ ID NOS: 51
 ; SOFTWARE: Patent in version 3.2
 ; SEQ ID NO 41
 ; LENGTH: 459
 ; TYPE: PRT
 ; ORGANISM: Artificial
 ; FEATURE:
 ; OTHER INFORMATION: Synthetic Construct
 US-10-913-171-41

Alignment Scores:
 Pred. No.: 7,04e-42 Length: 459
 Score: 575.00 Matches: 105
 Percent Similarity: 94.78% Conservative: 4
 Best Local Similarity: 91.30% Mismatches: 6
 Query Match: 89.98% Indels: 1
 DB: 17 Gaps: 0

US-09-873-224A-147 (1-345) x US-10-913-171-41 (1-459)

QY 1 ATGAGCACACTTCTTAACACCAAGAAACCAAAAGAAACCAACACCC-CGSCCAG 59
 |||||
 Db 31 MetSerThrAsnProLysProGlnArgLysThrLysArgAsnThrAsnArgProGln 50
 |||||
 QY 60 GACGTTAAAGTTCCAGCGCGGTGCAGATCGTGGTGGAGTTACGTGTACACGAGG 119
 |||||
 Db 51 AspValLysPheProGlyGlyGlnIleValGlyValTyrLeuLeuProArg 70
 |||||
 QY 120 GGCCCCCAGTTGGGTGCGTGCAGTCCGCAAGACTTCCGAGCGGTCCGCAACCTCGCAGT 179
 |||||


```

RESULT 14
US-10-912-969-58
; Sequence 58, Application US/10912969
; Publication No. US20050013828A1
; GENERAL INFORMATION:
; APPLICANT: Virexx Research, Inc.
; APPLICANT: George, Rajan
; APPLICANT: Tyrrell, Lorne
; APPLICANT: Noujaim, Antoine
; APPLICANT: Wang, Dakun
; APPLICANT: Ma, Allan
; TITLE OF INVENTION: Chimeric Antigens for Eliciting An Immune Response
; FILE REFERENCE: 17506-007001
; CURRENT APPLICATION NUMBER: US/10/912,969

```

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, CURRENT FILING DATE: 2004-06-03
, PRIOR APPLICATION NUMBER: US 60/390,564
, PRIOR FILING DATE: 2002-06-20
, PRIOR APPLICATION NUMBER: US 60/423,578
, PRIOR FILING DATE: 2002-11-05
, PRIOR APPLICATION NUMBER: US 10/365,620
, PRIOR FILING DATE: 2003-02-13
, PRIOR APPLICATION NUMBER: PCT/IB04/00373
, PRIOR FILING DATE: 2004-02-14
, NUMBER OF SEQ ID NOS: 79
, SOFTWARE: PatentIn version 3.2
, SEQ ID NO 58
, LENGTH: 473
, TYPE: PRT
, ORGANISM: Artificial
, FEATURE:
, OTHER INFORMATION: Synthetic Construct
US-10-912-969-58

Alignment Scores:
Pred. No.: 7 05e-42      Length: 473
Score: 575.00      Matches: 105
Percent Similarity: 94.78%      Conservative: 4
Best Local Similarity: 91.30%      Mismatches: 6

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DB: 17 Gaps: 0

US-09-873-224A-147 (1-345) x US-10-912-969-58 (1-473)

QY 1 ATGAGCACCTTCTAAACCAACAAGAAAAACCAACACC-CGGCCACAC

Db 31 MetSerThrAsnProLysProGlnArgLysThrLysArgAsnThrAsnArgArgProG

60	Qy	GACCTTAAGTTTCCACAGCGCGGTGCATGTTGGTGGAGTTTACGTGCTACCAACGCAC
51	Db	AspValIysPheProGlyGlyGlnIleValGlyGlyValIyLeuLeuProArg
120	Qy	GGCCCCCAGTTGGGTGTGCGTGCAGTGCACAGACTTCCGACGGTTCGCAACTCGCAGAG
71	Db	GlyProArgLeuGlyValArgAlaThrArgLysThrSerGluArgSerGlnProArgGly
180	Qy	AGGGCCCAACCCATCCCCCAGGGCGCGCCGNAACCGAGGGCAGGTCTCTGGGCTCAGCCCGG
91	Db	ArgArgGlnProIleProLysAlaArgA-gProGluGlyArgThrTrpAlaGlnProGly
240	Qy	TACCTCTGGCCCTTATATGGGAATGAGGGTGTGGGTGGCGAGGGTGGCTCTCTGTCCCCC
111	Db	TyrProItrpProLeuTyrglyAsnGluGlyCysGlyTrpAlaGlyTrpLeuLeuSerPr
300	Qy	CGCGCTCTCGCCCGTGTGGGGCCCCAATACCCCCCGCGGAGG 344
131	Db	ArgGlySerArgProSerTrpGlyProThrAspProArgArg 145

RESULT 15

US-10-913-171-39
; Sequence 39, Application US/10913171
; Publication No. US20050031628A1
; GENERAL INFORMATION:

THE UNIVERSITY OF CHICAGO

APPLICANT: George, Rajan
APPLICANT: Tyrrell, Lorne
APPLICANT: Noujaim, Antoine
APPLICANT: Wang, Dakun
APPLICANT: Ma, Allan
TITLE OF INVENTION: CHIMERIC ANTIGENS FOR BREAKING HOST TOLERANCE TO FOREIGN ANTIGENS
FILE REFERENCE: 17506-006001
CURRENT APPLICATION NUMBER: US/10/913,171
CURRENT FILING DATE: 2004-08-05
PRIOR APPLICATION NUMBER: US 60/493,449
PRIOR FILING DATE: 2004-08-08
NUMBER OF SEQ ID NOS: 51
SOFTWARE: PatentIn version 3.2
SEQ ID NO 39
LENGTH: 473
TYPE: PRT
ORGANISM: Artificial
FEATURE:
OTHER INFORMATION: Synthetic Construct
US-10-913-171-39

Alignment Scores:
Pred. No.: 7.05e-42 Length: 473
Score: 575.00 Matches: 105
Percent Similarity: 94.78% Conservative: 4
Best Local Similarity: 91.30% Mismatches: 6
Query Match: 89.98% Indels: 1
DB: 17 Gaps: 0

US-09-873-224A-147 (1-345) x US-10-913-171-39 (1-473)

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Db	31	MetSerThrAsnProLysProGlnArgLysThrLysArgAsnThrAsnArgProGln	50
Qy	60	GACGTTAAGTTCCAGCGCGGTCAGATCGTTGGTGGAGTTTACGTGTACCAACGAGG	119
Db	51	AspValLysPheProGlyGlyGlnIleValGlyValTyrLeuLeuProArgArg	70
Qy	120	GGCCCCAGTTGGTGTGGTGCAGTCGCGCAAGACTTCCAGCGGTCCGAACTCGCAGT	179
Db	71	GlyProArgLeuGlyValArgAlaThrArgLysThrSerGluArgSerGlnProArgGly	90
Qy	180	AGCGGCCAACCCATCCCGCGCGCGCGCAACCGAGGCGAGTCTCGGGCTCAGCCCGGG	239
Db	91	ArgArgGlnProLysProLysAlaArgArgProGluGlyArgThrTrpAlaGlnProGly	110
Qy	240	TACCTTTGGCCCTATATGGGAATGAGGCTGCGGGTGGCGAGGTGGCTCTCTCCCCG	299
Db	111	TyrProTrpProLeuTyrGlyAsnGluGlyCysGlyTrpAlaGlyTrpLeuLeuSerPro	130
Qy	300	CGCGGCTCTGCGCTGTCGGGGCCCAATGACCCCCGGCGCAGG	344
Db	131	ArgGlySerArgProSerTrpGlyProThrAspProArgArg	145

Search completed: April 15, 2005, 00:41:42
Job time : 73 secs

GenCore version 5.1.6
Copyright (c) 1993 - 2005 CompuGen Ltd.

OM nucleic - nucleic search, using sw model

April 14, 2005, 20:03:12 ; Search time 134 Seconds
(without alignments)
4212.802 Million cell up

Title: US-09-873-224A-147
 Perfect score: 345
 Sequence: 1 atgagcacacttctctaaacc.....aaatgacccccgcgcagga 345

Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapext 1.0

Searched: 1202784 segs, 818138359 residues

Total number of hits satisfying chosen parameters: 24055568

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Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
                  Maximum Match 10%
                  Listing first 45

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2: /cgn2_6/ptodata/1/ina/5B_COMB.seq.*
3: /cgn2_6/ptodata/1/ina/6A_COMB.seq.*
4: /cgn2_6/ptodata/1/ina/6B_COMB.seq.*
5: /cgn2_6/ptodata/1/ina/PTCTUS_COMB.seq.*
6: /cgn2_6/ptodata/1/ina/backfiles1.seq.*
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Query	Score	Match	Length	DB	ID	Description
1	1	345	100.0	345	4	US-09-878-281A-147	Sequence 147, App
2	2	309	89.6	309	3	US-08-836-075A-49	Sequence 49, Appl
3	3	261.6	75.8	652	3	US-08-836-075A-59	Sequence 59, Appl
4	4	260.2	75.4	499	4	US-09-878-281A-165	Sequence 165, App
5	5	259.4	75.2	573	2	US-08-290-665A-136	Sequence 136, App
6	6	259.4	75.2	573	4	US-09-194-949A-5	Sequence 5, Appl
7	7	259.4	75.2	573	5	PCr-US95-10398-136	Sequence 136, App
8	8	257.8	74.7	573	2	US-08-290-665A-141	Sequence 141, App
9	9	257.8	74.7	573	5	PCr-US95-10398-141	Sequence 141, App
10	10	257.8	74.7	803	1	US-08-157-235-4	Sequence 4, Appl
11	11	257.8	74.7	803	1	US-08-157-235-5	Sequence 5, Appl
12	12	256.2	74.3	573	2	US-08-290-665A-135	Sequence 135, App
13	13	256.2	74.3	573	2	US-08-290-665A-137	Sequence 137, App
14	14	256.2	74.3	573	2	US-08-290-665A-138	Sequence 138, App
15	15	256.2	74.3	573	5	PCr-US95-10398-135	Sequence 135, App
16	16	256.2	74.3	573	5	PCr-US95-10398-137	Sequence 137, App
17	17	256.2	74.3	573	5	PCr-US95-10398-138	Sequence 138, App
18	18	256.2	74.3	1037	1	US-08-462-195-1	Sequence 1, Appl
19	19	256.2	74.3	1037	2	US-08-637-883-1	Sequence 1, Appl
20	20	256.2	74.3	1037	3	US-09-127-829-1	Sequence 1, Appl
21	21	254.6	73.8	499	4	US-09-878-281A-163	Sequence 163, App
22	22	254.6	73.8	499	2	US-08-290-665A-107	Sequence 107, App
23	23	254.6	73.8	573	2	US-08-290-665A-114	Sequence 114, App
24	24	254.6	73.8	573	2	US-08-290-665A-119	Sequence 119, App
25	25	254.6	73.8	573	5	PCr-US95-10398-119	Sequence 107, App
26	26	254.6	73.8	573	5	PCr-US95-10398-114	Sequence 114, App
27	27	254.6	73.8	573	5	PCr-US95-10398-119	Sequence 119, App

ALIGNMENTS

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RESULT 1
US-09-878-281A-147
; Sequence 147, Application US/09878281A
; Patent No. 6762024
; GENERAL INFORMATION:
; APPLICANT: Innogenetics N.V.
; TITLE OF INVENTION: New sequences of
; TITLE OF INVENTION: and therapy
; FILE REFERENCE: 35
; CURRENT APPLICATION NUMBER: US/09/878
; CURRENT FILING DATE: 2003-06-12
; NUMBER OF SEQ ID NOS: 284
; SOFTWARE: Patentin version 3.1
; SEQ ID NO 147
; LENGTH: 345
; TYPE: DNA
; ORGANISM: hepatitis C virus
US-09-878-281A-147

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Query Match	100.0%;	Score 345;	DB 4;	Length 345;
Best Local Similarity	100.0%;	Pred. No. 7.3e-89;		
Matches 345: Conservative	0;	Mismatches 0;	Indels 0;	Gaps 0;

[illegible]

RESULT 2
US-08-836-075A-49

RESULT 6
US-09-194-949A-5
; Sequence 5, Application US/09194949A
; Patent No. 6653125
; GENERAL INFORMATION:
; APPLICANT: Merck & Co., Inc.
; APPLICANT: Donnelly, John J.
; APPLICANT: Fu, Tong-Ming
; APPLICANT: Liu, Margaret A.
; APPLICANT: Shiver, John W.
; TITLE OF INVENTION: SYNTHETIC HEPATITIS C GENES
; FILE REFERENCE: 19732YP
; CURRENT APPLICATION NUMBER: US/09/194, 949A
; CURRENT FILING DATE: 2000-02-17
; PRIOR APPLICATION NUMBER: PCT/US97/09884
; PRIOR FILING DATE: 1997-06-06
; PRIOR APPLICATION NUMBER: 60/020,494
; PRIOR FILING DATE: 1996-06-11
; PRIOR APPLICATION NUMBER: 60/033,534
; PRIOR FILING DATE: 1996-12-20
; PRIOR APPLICATION NUMBER: 08/865,823
; PRIOR FILING DATE: 1997-05-30
; NUMBER OF SEQ ID NOS: 25
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 5
; LENGTH: 573
; TYPE: DNA
; ORGANISM: Hepatitis C Virus
US-09-194-949A-5

Query Match 75.2%; Score 259.4; DB 4; Length 573;
Best Local Similarity 86.4%; Pred. No. 2.2e-64;
Matches 298; Conservative 0; Mismatches 46; Indels 1; Gaps 1;

Qy 1 ATGAGCACACTTCTTAACACACAAAGAAACCAAAAGAAACCAACCAACC-CCGGCCACAG 59
Db 1 ATGAGCACGATCTTAACCTCAAGAAACCAACCAAGTAAACCAACCGCCGACAG 60

Qy 60 GACGTTAAGTTCAGGCGGCGGTACATCGTTGGTGGAGTTTACGTCTACCAACGAGG 119
Db 61 GACGTTAAGTTCAGGCGGCGGTACATCGTTGGTGGAGTTTACGTCTACCAACGAGG 120

Qy 120 GCGCCCGAGTTCGCGGCGGTACATCGTTGGTGGAGTTTACGTCTACCAACGAGG 179
Db 121 GCGCCCGAGTTCGCGGCGGTACATCGTTGGTGGAGTTTACGTCTACCAACGAGG 180

Qy 180 AGCGCCCAACCCATCCCGGCGGCGGTACATCGTTGGTGGAGTTTACGTCTACCAACGAGG 239
Db 181 AGCGCCCAACCCATCCCGGCGGCGGTACATCGTTGGTGGAGTTTACGTCTACCAACGAGG 240

Qy 240 TACCTTGGCCCTTATATGGGAATAGGGTTCGCGGCGGCGGTACATCGTTGGTGGAGTTTACGTCTACCAACGAGG 299
Db 241 TACCTTGGCCCTTATATGGGAATAGGGTTCGCGGCGGCGGTACATCGTTGGTGGAGTTTACGTCTACCAACGAGG 300

Qy 300 GCGGCTCTCGGCTAGTTGGGCGGCGGCGGTACATCGTTGGTGGAGTTTACGTCTACCAACGAGG 344
Db 301 GCGGCTCTCGGCTAGTTGGGCGGCGGCGGTACATCGTTGGTGGAGTTTACGTCTACCAACGAGG 345

RESULT 7
PCT-US95-10398-136
; Sequence 136, Application PC/TUS9510398
; GENERAL INFORMATION:
; APPLICANT: BUKH, J., MILLER, R.H. AND
; APPLICANT: PURCELL, R.H.
; TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED
; TITLE OF INVENTION: AMINO ACID SEQUENCES OF THE ENVELOPE 1 AND
; TITLE OF INVENTION: CORE GENES OF ISOLATES OF HEPATITIS C VIRUS
; TITLE OF INVENTION: CORE GENES OF ISOLATES OF HEPATITIS C VIRUS
; TITLE OF INVENTION: AND THE USE OF REAGENTS DERIVED FROM THESE
; TITLE OF INVENTION: SEQUENCES IN DIAGNOSTIC METHODS AND VACCINES
; NUMBER OF SEQUENCES: 263
; CORRESPONDENCE ADDRESS:

ADDRESSEE: MORGAN & FINNEGAN
STREET: 345 PARK AVENUE
CITY: NEW YORK
STATE: NEW YORK
COUNTRY: USA
ZIP: 10154
COMPUTER READABLE FORM:
MEDIUM TYPE: FLOPPY DISK
COMPUTER: IBM PC COMPATIBLE
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: WORDPERFECT 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: PCT/US95/10398
FILING DATE: 15-AUG-1995
CLASSIFICATION:
PRIOR APPLICATION NUMBER: 08/086,428
FILING DATE: 29 JUNE 1993
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/290/665
FILING DATE: 15 AUGUST 1994
ATTORNEY/AGENT INFORMATION:
NAME: RICHARD W. BORK
REGISTRATION NUMBER: 36,459
REFERENCE/DOCKET NUMBER: 2026-4116
TELECOMMUNICATION INFORMATION:
TELEPHONE: (212) 758-4800
TELEFAX: (212) 751-6849
TELEX: 421792
INFORMATION FOR SEQ ID NO: 136:
SEQUENCE CHARACTERISTICS:
LENGTH: 573 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
ORGANISM: homopiapiens
INDIVIDUAL ISOLATE: S52
PCT-US95-10398-136

Query Match 75.2%; Score 259.4; DB 5; Length 573;
Best Local Similarity 86.4%; Pred. No. 2.2e-64;
Matches 298; Conservative 0; Mismatches 46; Indels 1; Gaps 1;

Qy 1 ATGAGCACACTTCTTAACACACAAAGAAACCAAAAGAAACCAACCAACC-CCGGCCACAG 59
Db 1 ATGAGCACACTTCTTAACCTCAAGAAACCAACCAAGTAAACCAACCGCCGACAG 60

Qy 60 GACGTTAAGTTCAGGCGGCGGTACATCGTTGGTGGAGTTTACGTCTACCAACGAGG 119
Db 61 GACGTTAAGTTCAGGCGGCGGTACATCGTTGGTGGAGTTTACGTCTACCAACGAGG 120

Qy 120 GCGCCCGAGTTCGCGGCGGTACATCGTTGGTGGAGTTTACGTCTACCAACGAGG 179
Db 121 GCGCCCGAGTTCGCGGCGGTACATCGTTGGTGGAGTTTACGTCTACCAACGAGG 180

Qy 180 AGCGCCCAACCCATCCCGGCGGCGGTACATCGTTGGTGGAGTTTACGTCTACCAACGAGG 239
Db 181 AGCGCCCAACCCATCCCGGCGGCGGTACATCGTTGGTGGAGTTTACGTCTACCAACGAGG 240

Qy 240 TACCTTGGCCCTTATATGGGAATAGGGTTCGCGGCGGCGGTACATCGTTGGTGGAGTTTACGTCTACCAACGAGG 299
Db 241 TACCTTGGCCCTTATATGGGAATAGGGTTCGCGGCGGCGGTACATCGTTGGTGGAGTTTACGTCTACCAACGAGG 300

Qy 300 GCGGCTCTCGGCTAGTTGGGCGGCGGCGGTACATCGTTGGTGGAGTTTACGTCTACCAACGAGG 344
Db 301 GCGGCTCTCGGCTAGTTGGGCGGCGGCGGTACATCGTTGGTGGAGTTTACGTCTACCAACGAGG 345

RESULT 8
US-08-290-665A-141
; Sequence 141, Application US/08290665A
; Patent No. 5882852

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GENERAL INFORMATION:
; APPLICANT: BUKH, J., MILLER, R.H. AND
; APPLICANT: PURCELL, R.H.
; TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED
; TITLE OF INVENTION: AMINO ACID SEQUENCES OF THE ENVELOPE 1 AND
; TITLE OF INVENTION: CORE GENES OF ISOLATES OF HEPATITIS C VIRUS
; TITLE OF INVENTION: AND THE USE OF REAGENTS DERIVED FROM THESE
; TITLE OF INVENTION: SEQUENCES IN DIAGNOSTIC METHODS AND VACCINES
; NUMBER OF SEQUENCES: 263
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: MORGAN & FINNEGAN
; STREET: 345 PARK AVENUE
; CITY: NEW YORK
; STATE: NEW YORK
; COUNTRY: USA
; ZIP: 10154
; COMPUTER READABLE FORM:
; MEDIUM TYPE: FLOPPY DISK
; COMPUTER: IBM PC COMPATIBLE
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: WORDPERFECT 5.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/290,665A
; FILING DATE: 15-AUG-1994
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: RICHARD W. BORK
; REGISTRATION NUMBER: 36,459
; REFERENCE/DOCKET NUMBER: 2026-4116
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (212) 758-4800
; TELEFAX: (212) 751-6849
; TELEX: 421792
; INFORMATION FOR SEQ ID NO: 141:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 573 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; ORGANISM: homosapiens
; INDIVIDUAL ISOLATE: Z1
; US-08-290-665A-141

Query Match 74.7%; Score 257.8; DB 2; Length 573;
Best Local Similarity 86.1%; Pred. No. 6.3e-64;
Matches 297; Conservative 0; Mismatches 47; Indels 1; Gaps 1;

Qy 1 ATGAGCACATCTCTAAACCAACAAAGAAAAACCAAAAGAAACCAACCAACCCCGGCACA-G 59
Db 1 ATGAGCAAAATCTTAAACCTCAAGAAAAACCAAAACGTAACCAACCGTCGCCCATG 60

Qy 60 GACGTTAAGTTCCAGCGCGGTCCAGATCGTTGGTGGAGTTTACGTCTACCAACGAGG 119
Db 61 GATGTGAATTCCTCGCGCGGCGGCGAGATCGTTGGCGGAGTTTACTTCTCGCGCGAGG 120

Qy 120 GCGCCCAACCCATCCCGAGCGCGCGAGACCGAGGCGAGGTCTGGGGCTCAGCCCGGG 179
Db 121 GCGCCCAACCCATCCCGAGCGCGCGAGACCGAGGCGAGGTCTGGGGCTCAGCCCGGG 180

Qy 180 AGGCGCCCAACCCATCCCGAGCGCGCGAGACCGAGGCGAGGTCTGGGGCTCAGCCCGGG 239
Db 181 AGGCGCCCAACCCATCCCGAGCGCGCGAGACCGAGGCGAGGTCTGGGGCTCAGCCCGGG 240

Qy 240 TACCTTGGCCCTTATAGGAATGAGGGCTCGCGGTGGGAGGAGGTCTGTCTCCCG 299
Db 241 TACCTTGGCCCTTATAGGAATGAGGGCTCGCGGTGGGAGGAGGTCTGTCTCCCG 300

Qy 300 CGCGGCTCTCGCGGTCTGTGGGGCCCAATGACCCCGCGCGAGG 344
Db 301 CGCGGCTCTCGCGGTCTGTGGGGCCCAATGATCCCGCGCGTAGG 345

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RESULT 9
PCT-US95-10398-141
; Sequence 141, Application PC/TUS9510398
; GENERAL INFORMATION:
; APPLICANT: BUKH, J., MILLER, R.H. AND
; APPLICANT: PURCELL, R.H.
; TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED
; TITLE OF INVENTION: AMINO ACID SEQUENCES OF THE ENVELOPE 1 AND
; TITLE OF INVENTION: CORE GENES OF ISOLATES OF HEPATITIS C VIRUS
; TITLE OF INVENTION: AND THE USE OF REAGENTS DERIVED FROM THESE
; TITLE OF INVENTION: SEQUENCES IN DIAGNOSTIC METHODS AND VACCINES
; NUMBER OF SEQUENCES: 263
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: MORGAN & FINNEGAN
; STREET: 345 PARK AVENUE
; CITY: NEW YORK
; STATE: NEW YORK
; COUNTRY: USA
; ZIP: 10154
; COMPUTER READABLE FORM:
; MEDIUM TYPE: FLOPPY DISK
; COMPUTER: IBM PC COMPATIBLE
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: WORDPERFECT 5.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: PCT/US95/10398
; FILING DATE: 15-AUG-1995
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/086,428
; FILING DATE: 29 JUNE 1993
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/290/665
; FILING DATE: 15 AUGUST 1994
; ATTORNEY/AGENT INFORMATION:
; NAME: RICHARD W. BORK
; REGISTRATION NUMBER: 36,459
; REFERENCE/DOCKET NUMBER: 2026-4116
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (212) 758-4800
; TELEFAX: (212) 751-6849
; TELEX: 421792
; INFORMATION FOR SEQ ID NO: 141:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 573 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; ORIGINAL SOURCE:
; ORGANISM: homosapiens
; INDIVIDUAL ISOLATE: Z1
; PCT-US95-10398-141

Query Match 74.7%; Score 257.8; DB 5; Length 573;
Best Local Similarity 86.1%; Pred. No. 6.3e-64;
Matches 297; Conservative 0; Mismatches 47; Indels 1; Gaps 1;

Qy 1 ATGAGCACATCTCTAAACCAACAAAGAAAAACCAAAAGAAACCAACCCCGGCACA-G 59
Db 1 ATGAGCAAAATCTTAAACCTCAAGAAAAACCAAAACGTAACCAACCGTCGCCCATG 60

Qy 60 GACGTTAAGTTCCAGCGCGGTCCAGATCGTTGGTGGAGTTTACGTCTACCAACGAGG 119
Db 61 GATGTGAATTCCTCGCGCGGCGGCGAGATCGTTGGCGGAGTTTACTTCTCGCGCGAGG 120

Qy 120 GCGCCCAACCCATCCCGAGCGCGCGAGACCGAGGCGAGGTCTGGGGCTCAGCCCGGG 179
Db 121 GCGCCCAACCCATCCCGAGCGCGCGAGACCGAGGCGAGGTCTGGGGCTCAGCCCGGG 180

Qy 180 AGGCGCCCAACCCATCCCGAGCGCGCGAGACCGAGGCGAGGTCTGGGGCTCAGCCCGGG 239
Db 181 AGGCGCCCAACCCATCCCGAGCGCGCGAGACCGAGGCGAGGTCTGGGGCTCAGCCCGGG 240

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QY 240 TACCCTTGGCCCTATATGGGAATGAGGCTGGGCTGGGCGAGGTGGCTCTGTCTCCCG 299
 Db 241 TACCCTTGGCCCTTACGGCAATGAGGCTGGGCTGGGCGAGGTGGCTCTGTCTCCCG 300
 QY 300 CGCGGCTCTCGCCGCTGCTGGGCGCCCAAAATGACCCCGGCGCAG 344
 Db 301 CGCGGCTTCCAGGCGGCTTGGGCGCCCAATGATCCCGGCGTAGG 345

RESULT 10
 US-08-157-235-4
 ; Sequence 4, Application US/08157235
 ; Patent No. 5550016
 ; GENERAL INFORMATION:
 ; APPLICANT: OKAMOTO, Hiroaki
 ; TITLE OF INVENTION: OLIGONUCLEOTIDES OF HCV, PRIMERS AND
 ; TITLE OF INVENTION: PROBES THEREFROM, METHOD OF DETERMINING HCV GENOTYPES,
 ; TITLE OF INVENTION: AND METHOD OF DETECTING HCV IN SAMPLES
 ; NUMBER OF SEQUENCES: 20
 ; CORRESPONDENCE ADDRESS:
 ; ADDRESSEE: Beveridge, DeGrandi, Weilacher & Young
 ; STREET: 1850 M Street N.W., Suite 800
 ; CITY: Washington
 ; STATE: D.C.
 ; COUNTRY:
 ; ZIP: 20036
 ; COMPUTER READABLE FORM:
 ; MEDIUM TYPE: Floppy disk
 ; COMPUTER: IBM PC compatible
 ; OPERATING SYSTEM: PC-DOS/MS-DOS
 ; SOFTWARE: PatentIn Release #1.0, Version #1.25
 ; CURRENT APPLICATION DATA:
 ; APPLICATION NUMBER: US/08/157,235
 ; FILING DATE: 24-NOV-1993
 ; CLASSIFICATION: 435
 ; PRIOR APPLICATION DATA:
 ; APPLICATION NUMBER: JP 354370/92
 ; FILING DATE: 27-NOV-1992
 ; ATTORNEY/AGENT INFORMATION:
 ; NAME: Robert G. Weilacher
 ; REGISTRATION NUMBER: 20,531
 ; REFERENCE/DOCKET NUMBER: 06/87-49206
 ; TELECOMMUNICATION INFORMATION:
 ; TELEPHONE: 202-659-2811
 ; TELEFAX: 202-659-1462
 ; TELEX: 64470
 ; INFORMATION FOR SEQ ID NO: 4:
 ; SEQUENCE CHARACTERISTICS:
 ; LENGTH: 803 base pairs
 ; TYPE: nucleic acid
 ; STRANDEDNESS: single
 ; TOPOLOGY: linear
 ; US-08-157-235-4

Query Match 74.7%; Score 257.8; DB 1; Length 803;
 Best Local Similarity 86.1%; Pred. No. 7e-64;
 Matches 297; Conservative 0; Mismatches 47; Indels 1; Gaps 1;
 QY 1 ATGAGCACACTTCTTAACCAAGAAACCAAAAGAAACCAACCAACCCGCGCCACAG 59
 Db 298 ATGAGCACACTTCTTAACCTCAAGAAACCAAAAGAAACCAACCAACCCGCGCCACAG 357
 QY 60 GACGTTAAGTTCCAGCGCGGTGAGATCGTTGGTGGAGTTTACGTGCTACCAACGAGG 119
 Db 358 GACGTTAAGTTCCAGCGGTGAGATCGTTGGTGGAGTATACGTGTTCCGCGCAGG 417
 QY 120 GCGCCCAAGTTGGGTGCTGCGTGCAGTCCGAGGCTTCCGACCTTCGCGAGT 179
 Db 418 GCGCCCAAGTTGGGTGCTGCGTGCAGTCCGAGGCTTCCGACCTTCGCGAGT 477
 QY 180 AGCGCCCAACCAATCCCGAGGCGCGCGAACCAGAGGCGAGGCTCTGGGCTCAGCCCGG 239
 Db 478 CGACGACAGCCTATCCCCAAGCGCGTCCGAGCGAAGCGCGCTCTGGGCTCAGCCCGG 537

QY 240 TACCCTTGGCCCTATATGGGAATGAGGCTGGGCTGGGCGAGGTGGCTCTGTCTCCCG 299
 Db 538 TACCCTTGGCCCTCTATGTTAAGAGGCTGGGCTGGGCGAGGTGGCTCTGTCTCCCG 597
 QY 300 CGCGGCTCTCGCCGCTGCTGGGCGCCCAAAATGACCCCGGCGCAGG 344
 Db 598 CGCGGCTCCCGTCCATCTCTGGGCGCCCAATGACCCCGGCGGAGG 642

RESULT 11
 US-08-157-235-5
 ; Sequence 5, Application US/08157235
 ; Patent No. 5550016
 ; GENERAL INFORMATION:
 ; APPLICANT: OKAMOTO, Hiroaki
 ; TITLE OF INVENTION: OLIGONUCLEOTIDES OF HCV, PRIMERS AND
 ; TITLE OF INVENTION: PROBES THEREFROM, METHOD OF DETERMINING HCV GENOTYPES,
 ; TITLE OF INVENTION: AND METHOD OF DETECTING HCV IN SAMPLES
 ; NUMBER OF SEQUENCES: 20
 ; CORRESPONDENCE ADDRESS:
 ; ADDRESSEE: Beveridge, DeGrandi, Weilacher & Young
 ; STREET: 1850 M Street N.W., Suite 800
 ; CITY: Washington
 ; STATE: D.C.
 ; COUNTRY:
 ; ZIP: 20036
 ; COMPUTER READABLE FORM:
 ; MEDIUM TYPE: Floppy disk
 ; COMPUTER: IBM PC compatible
 ; OPERATING SYSTEM: PC-DOS/MS-DOS
 ; SOFTWARE: PatentIn Release #1.0, Version #1.25
 ; CURRENT APPLICATION DATA:
 ; APPLICATION NUMBER: US/08/157,235
 ; FILING DATE: 24-NOV-1993
 ; CLASSIFICATION: 435
 ; PRIOR APPLICATION DATA:
 ; APPLICATION NUMBER: JP 354370/92
 ; FILING DATE: 27-NOV-1992
 ; ATTORNEY/AGENT INFORMATION:
 ; NAME: Robert G. Weilacher
 ; REGISTRATION NUMBER: 20,531
 ; REFERENCE/DOCKET NUMBER: 06/87-49206
 ; TELECOMMUNICATION INFORMATION:
 ; TELEPHONE: 202-659-2811
 ; TELEFAX: 202-659-1462
 ; TELEX: 64470
 ; INFORMATION FOR SEQ ID NO: 5:
 ; SEQUENCE CHARACTERISTICS:
 ; LENGTH: 803 base pairs
 ; TYPE: nucleic acid
 ; STRANDEDNESS: single
 ; TOPOLOGY: linear
 ; US-08-157-235-5

Query Match 74.7%; Score 257.8; DB 1; Length 803;
 Best Local Similarity 86.1%; Pred. No. 7e-64;
 Matches 297; Conservative 0; Mismatches 47; Indels 1; Gaps 1;
 QY 1 ATGAGCACACTTCTTAACCAAGAAACCAAAAGAAACCAACCAACCCGCGCCACAG 59
 Db 298 ATGAGCACACTTCTTAACCTCAAGAAACCAAAAGAAACCAACCAACCCGCGCCACAG 357
 QY 60 GACGTTAAGTTCCAGCGCGGTGAGATCGTTGGTGGAGTTTACGTGCTACCAACGAGG 119
 Db 358 GACGTTAAGTTCCAGCGGTGAGATCGTTGGTGGAGTATACGTGTTCCGCGCAGG 417
 QY 120 GCGCCCAAGTTGGGTGCTGCGTGCAGTCCGAGGCTTCCGACCTTCGCGAGT 179
 Db 418 GCGCCCAAGTTGGGTGCTGCGTGCAGTCCGAGGCTTCTTGAACGCTCAGACCTCGCGA 477
 QY 180 AGCGCCCAACCAATCCCGAGGCGCGCGAACCAGAGGCGAGGCTCTGGGCTCAGCCCGG 239

Db 478 CGACGACAGCCTATCCCCAGCGCGTGGAGCGAAGCGCGCTCTGGGCTCAGCCCGG 537

Qy 240 TACCTTGGCCCTATATGGGAATGAGGCTCGCGGTGGGCAAGGTGGCTCTGTCCCG 299

Db 538 TACCTTGGCCCTCTATGTTAAGAGGCTCGCGGTGGGCAAGGTGGCTCTGTCCCG 597

Qy 300 CGCGCTCTCGCCCTCTGTTGGGGCCCAATGACCCCGCGCAGG 344

Db 598 CGCGCTCTCGCTCCATCATCTGGGGCCCAATGACCCCGCGCAGG 642

RESULT 12

US-08-290-665A-135

; Sequence 135, Application US/08290665A

; Patent No. 5882852

; GENERAL INFORMATION:

; APPLICANT: BUKH, J., MILLER, R.H. AND

; APPLICANT: PURCELL, R.H.

; TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED

; TITLE OF INVENTION: AMINO ACID SEQUENCES OF THE ENVELOPE 1 AND

; TITLE OF INVENTION: CORE GENES OF ISOLATES OF HEPATITIS C VIRUS

; TITLE OF INVENTION: AND THE USE OF REAGENTS DERIVED FROM THESE

; TITLE OF INVENTION: SEQUENCES IN DIAGNOSTIC METHODS AND VACCINES

; NUMBER OF SEQUENCES: 263

; CORRESPONDENCE ADDRESS:

; ADDRESSEE: MORGAN & FINNEGAN

; STREET: 345 PARK AVENUE

; CITY: NEW YORK

; STATE: NEW YORK

; COUNTRY: USA

; ZIP: 10154

; COMPUTER READABLE FORM:

; MEDIUM TYPE: FLOPPY DISK

; COMPUTER: IBM PC COMPATIBLE

; OPERATING SYSTEM: PC-DOS/MS-DOS

; SOFTWARE: WORDPERFECT 5.1

; CURRENT APPLICATION DATA:

; APPLICATION NUMBER: US/08/290,665A

; FILING DATE: 15-AUG-1994

; CLASSIFICATION: 435

; ATTORNEY/AGENT INFORMATION:

; NAME: RICHARD W. BORK

; REGISTRATION NUMBER: 36,459

; REFERENCE/DOCKET NUMBER: 2026-4116

; TELEPHONE: (212) 758-4800

; TELEFAX: (212) 751-6849

; TELEX: 421792

; INFORMATION FOR SEQ ID NO: 135:

; SEQUENCE CHARACTERISTICS:

; LENGTH: 573 base pairs

; TYPE: nucleic acid

; STRANDEDNESS: single

; TOPOLOGY: linear

; ORIGINAL SOURCE:

; ORGANISM: homosapiens

; INDIVIDUAL ISOLATE: HK10

US-08-290-665A-135

Query Match 74.3%; Score 256.2; DB 2; Length 573;

Best Local Similarity 85.8%; Pred. No. 1.8e-63;

Matches 296; Conservative 0; Mismatches 48; Indels 1; Gaps 1;

Qy 1 ATGACACACTTCCTTAACCAACCAAGAAAAACCAAAACCAACCAACCCGCGCCACAG 59

Db 1 ATGACACACTTCCTTAACCTCAAGAAAAACCAAAACCAACCAACCTCGTCGCCACAG 60

Qy 60 GACGTTAAGTTCCCGCGCGGTGAGATCGTTGGTGGAGTTTACGTGTACACGCGAGG 119

Db 61 GACGTTAAGTTCCCGGTGGCGGACAGATCGTTGGTGGAGTATAGTGTGCGCGCAGG 120

Qy 120 GCGCCCAAGTTGGGTGTGGTCCAGTGGCGCAAGACTTCGAGCGGTGCGAACCTCGCAGT 179

Db 121 GGCCACACATTTGGTGTGCGCGCGCGCTAAACTTCTGAACGCTCGAGCCTCGCGA 180

Qy 180 AGGCGCCCAACCATCCCGAGGCGCGCGAACCAGGAGCAGGTCTTGGCTCAGCCCGG 239

Db 181 CGACGACAGCCTATCCCCAAGCGCGTGGAGCGAAGCGCGTCTGGCTCAGCCCGG 240

Qy 240 TACCTTGGCCCTCTATATGGGAATGAGGCTCGCGGTGGGCAAGGTGGCTCTGTCCCG 299

Db 241 TACCTTGGCCCTCTATGTTAAGAGGCTCGCGGTGGGCAAGGTGGCTCTGTCCCG 300

Qy 300 CGCGCTCTCGCGCTGTTGGGGCCCAATGACCCCGCGCAGG 344

Db 301 CGCGCTCTCGCTCCATCTTGGGGCCCAACGACCCCGCGCAGG 345

RESULT 13

US-08-290-665A-137

; Sequence 137, Application US/08290665A

; Patent No. 5882852

; GENERAL INFORMATION:

; APPLICANT: BUKH, J., MILLER, R.H. AND

; APPLICANT: PURCELL, R.H.

; TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED

; TITLE OF INVENTION: AMINO ACID SEQUENCES OF THE ENVELOPE 1 AND

; TITLE OF INVENTION: CORE GENES OF ISOLATES OF HEPATITIS C VIRUS

; TITLE OF INVENTION: AND THE USE OF REAGENTS DERIVED FROM THESE

; TITLE OF INVENTION: SEQUENCES IN DIAGNOSTIC METHODS AND VACCINES

; NUMBER OF SEQUENCES: 263

; CORRESPONDENCE ADDRESS:

; ADDRESSEE: MORGAN & FINNEGAN

; STREET: 345 PARK AVENUE

; CITY: NEW YORK

; STATE: NEW YORK

; COUNTRY: USA

; ZIP: 10154

; COMPUTER READABLE FORM:

; MEDIUM TYPE: FLOPPY DISK

; COMPUTER: IBM PC COMPATIBLE

; OPERATING SYSTEM: PC-DOS/MS-DOS

; SOFTWARE: WORDPERFECT 5.1

; CURRENT APPLICATION DATA:

; APPLICATION NUMBER: US/08/290,665A

; FILING DATE: 15-AUG-1994

; CLASSIFICATION: 435

; ATTORNEY/AGENT INFORMATION:

; NAME: RICHARD W. BORK

; REGISTRATION NUMBER: 36,459

; REFERENCE/DOCKET NUMBER: 2026-4116

; TELEPHONE: (212) 758-4800

; TELEFAX: (212) 751-6849

; TELEX: 421792

; INFORMATION FOR SEQ ID NO: 137:

; SEQUENCE CHARACTERISTICS:

; LENGTH: 573 base pairs

; TYPE: nucleic acid

; STRANDEDNESS: single

; TOPOLOGY: linear

; ORIGINAL SOURCE:

; ORGANISM: homosapiens

; INDIVIDUAL ISOLATE: S2

US-08-290-665A-137

Query Match 74.3%; Score 256.2; DB 2; Length 573;

Best Local Similarity 85.8%; Pred. No. 1.8e-63;

Matches 296; Conservative 0; Mismatches 48; Indels 1; Gaps 1;

Qy 1 ATGACACACTTCCTTAACCAACCAAGAAAAACCAAAACCAACCAACCCGCGCCACAG 59

Db 1 ATGACACACTTCCTTAACCTCAAGAAAAACCAAAACCAACCAACCTCGTCGCCACAG 60

Qy 60 GACGTTAAGTTCCCGCGCGGTGAGATCGTTGGTGGAGTTTACGTGTACACGCGAGG 119

INDIVIDUAL ISOLATE: HK10
PCT-US95-10398-135

Query Match	74.3%;	Score	256.2;	DB	5;	Length	573;
Best Local Similarity	85.8%;	Pred. No.	1.8e-63;				
Matches	296;	Conservative	0;	Mismatches	48;	Indels	1;
						Gaps	1;

Qy	1	ATGAGCAGACTTCTTAACCAACCAAGAAACCAAAAGAAACCAACACC-CGGGCCACAG	59
Db	1	ATGAGCAGACTTCTTAACCTCAAGAAACCAAAAGAAACCAACACCATCGTCGCCACAG	60
Qy	60	GACGTTAAGTTCCAGCGCGGTGATCGTTGGTGGAGTTTACGTGCTACACGCGAGG	119
Db	61	GACGTTAAGTTCCCGGTGGCGGACAGATCGTTGGTGGAGTATACGTGTCGCCGCGAGG	120
Qy	120	GGCCCCCAGTTGGGTGTCGTGACGTGCGCAAGACTTCCGAGCGGTGCGCAACTCGCAGT	179
Db	121	GGCCCCCAGATTGGGTGTCGCCGCGAGCGTAAACTTCTGAACGGTCGCAGCCTCGCGGA	180
Qy	180	AGCGCGCAACCCATCCCGAGGCGCGCCGAAACGAGGGGAGGTCTCTGGGCTCAGCCCGGG	239
Db	181	CGACGACAGCCTATCCCAAGCGCGTCCGAGCGAAGCGCGTCTCTGGGCTCAGCCCGGG	240
Qy	240	TACCCCTTGGCCCCCTATATGGGAATGAGGGCTCGGGGTGGGCAAGGTGGCTCTCTCCCCG	299
Db	241	TACCCCTTGGCCCCCTCTATGGTAACGAGGGCTCGGGGTGGGAGGATGGCTCTCTCCCCA	300
Qy	300	CGCGGCTCTCGCCCCGTGTCGGGGCCCAATGACCCCCCGCGCAGG	344
Db	301	CGCGGCTCCCGTCCATCTTGGGGCCCAACGACCCCCCGCGCAGG	345

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Job time : 135 secs

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GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model

Run on: April 14, 2005, 21:21:18 ; Search time 507 Seconds
(without alignments)
4128.235 Million cell updates/sec

Title: US-09-873-224A-147

Perfect score: 345

Sequence: 1 atgagcacattcttaaac.....aaatgaccccgccgagga 345

Scoring table: IDENTITY NUC

Gapop 10.0, Gapext 1.0

Searched: 5622541 seqs, 303355566 residues

Total number of hits satisfying chosen parameters: 11245082

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Published Applications NA:*

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2: /cgn2_6/ptodata/1/pubpna/PCT_NEW_PUB.seq.*

3: /cgn2_6/ptodata/1/pubpna/US06_NEW_PUB.seq.*

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17: /cgn2_6/ptodata/1/pubpna/US10E_PUBCOMB.seq.*

18: /cgn2_6/ptodata/1/pubpna/US10F_PUBCOMB.seq.*

19: /cgn2_6/ptodata/1/pubpna/US10_NEW_PUB.seq.*

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21: /cgn2_6/ptodata/1/pubpna/US60_NEW_PUB.seq.*

22: /cgn2_6/ptodata/1/pubpna/US60_PUBCOMB.seq.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	345	100.0	345	10	US-09-873-224-147
2	334	96.8	346	10	US-09-899-046-147
3	334	96.8	346	10	US-09-878-281-147
4	309	89.6	309	9	US-09-851-138-49
5	261.6	75.8	652	9	US-09-851-138-59
6	260.2	75.4	499	10	US-09-899-046-165
7	260.2	75.4	499	10	US-09-878-281-165
8	260.2	75.4	499	10	US-09-873-224-165
9	259.4	75.2	573	10	US-09-194-949-5
10	259.4	75.2	573	19	US-10-664-391-5
11	254.6	73.8	499	10	US-09-899-046-163

12	254.6	73.8	499	10	US-09-878-281-163	Sequence 163, App
13	254.6	73.8	499	10	US-09-873-224-163	Sequence 163, App
14	253.6	73.5	498	10	US-09-899-046-193	Sequence 193, App
15	253.6	73.5	498	10	US-09-878-281-193	Sequence 193, App
16	253.6	73.5	498	10	US-09-873-224-193	Sequence 193, App
17	253	73.3	2433	9	US-09-973-025-49	Sequence 49, Appl
18	253	73.3	2433	10	US-09-899-303-49	Sequence 49, Appl
19	253	73.3	2433	10	US-09-995-808-49	Sequence 49, Appl
20	253	73.3	2433	10	US-09-995-860-49	Sequence 49, Appl
21	253	73.3	2433	10	US-09-995-791-49	Sequence 49, Appl
22	253	73.3	2433	18	US-10-321-798-49	Sequence 1, Appl
23	251.4	72.9	531	18	US-10-484-112-1	Sequence 3, Appl
24	251.4	72.9	1953	18	US-10-484-112-3	Sequence 3, Appl
25	249.8	72.4	360	9	US-09-306-780-3	Sequence 7, Appl
26	249.8	72.4	483	9	US-09-306-780-7	Sequence 11, Appl
27	249.8	72.4	843	9	US-09-306-780-11	Sequence 17, Appl
28	249.8	72.4	9353	18	US-10-475-024-17	Sequence 6, Appl
29	249.8	72.4	9413	10	US-09-827-688-6	Sequence 11, Appl
30	248.8	72.1	957	9	US-09-851-138-11	Sequence 13, Appl
31	248.2	71.9	378	18	US-10-677-956-13	Sequence 15, Appl
32	248.2	71.9	480	16	US-10-071-867-15	Sequence 39, Appl
33	248.2	71.9	9275	15	US-10-259-275-39	Sequence 9, Appl
34	246.6	71.5	378	18	US-10-677-956-9	Sequence 13, Appl
35	246.6	71.5	480	10	US-10-664-038-13	Sequence 37, Appl
36	246.6	71.5	685	10	US-09-853-409-37	Sequence 37, Appl
37	246.6	71.5	685	17	US-10-457-304-37	Sequence 37, Appl
38	246.6	71.5	685	17	US-10-454-293-37	Sequence 57, Appl
39	246.6	71.5	708	17	US-10-365-620-57	Sequence 59, Appl
40	246.6	71.5	708	19	US-10-912-969-59	Sequence 53, Appl
41	246.6	71.5	750	17	US-10-365-620-53	Sequence 55, Appl
42	246.6	71.5	750	19	US-10-912-969-55	Sequence 59, Appl
43	246.6	71.5	1380	17	US-10-365-620-59	Sequence 61, Appl
44	246.6	71.5	1380	19	US-10-912-969-61	Sequence 40, Appl
45	246.6	71.5	1380	19	US-10-913-171-40	

ALIGNMENTS

RESULT 1

; Sequence 147, Application US/09873224

; Publication No. US20030064360A1

; GENERAL INFORMATION:

; APPLICANT: <Unknown>

; TITLE OF INVENTION: New sequences of hepatitis C virus genotypes for diagnosis, prophylaxis and therapy.

; NUMBER OF SEQUENCES: 270

; CORRESPONDENCE ADDRESS:

; STREET: Industriepark Zwijnaarde 7, box 4

; CITY: Ghent

; COUNTRY: Belgium

; ZIP: B-9052

; COMPUTER READABLE FORM:

; MEDIUM TYPE: Floppy disk

; COMPUTER: IBM PC compatible

; OPERATING SYSTEM: PC-DOS/MS-DOS

; SOFTWARE: PatentIn Release #1.0, Version #1.25 (EPO)

; CURRENT APPLICATION DATA:

; APPLICATION NUMBER: US/09/873,224

; FILING DATE: 05-Jun-2001

; CLASSIFICATION: <Unknown>

; PRIOR APPLICATION DATA:

; APPLICATION NUMBER: 08/362,455

; FILING DATE: <Unknown>

; ATTORNEY/AGENT INFORMATION:

; NAME: Innogenetics sa.

; TELECOMMUNICATION INFORMATION:

; TELEPHONE: 00 32 9 241 07 11

; TELEFAX: 00 32 9 241 07 99

; INFORMATION FOR SEQ ID NO: 147:

; SEQUENCE CHARACTERISTICS:

; LENGTH: 345 base pairs


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; MOLECULE TYPE: cDNA
; HYPOTHETICAL: NO
; ANTI-SENSE: NO
; SEQUENCE DESCRIPTION: SEQ ID NO: 49:
US-09-851-138-49

Query Match      89.6%; Score 309; DB 9; Length 309;
Best Local Similarity 100.0%; Pred. No. 6.2e-85;
Matches 309; Conservative 0; Mismatches 0; Indels 0; Gaps 0

QY      1  ATGAGCACACTTCTCTAAACACACAGAGAAACCAAAAGAAACCAACACCCCGGCACACAGG 60
DB      1  ATGAGCACACTTCTCTAAACACACAGAGAAACCAAAAGAAACCAACACCCCGGCACACAGG 60

QY      61  ACGTTAAGTTCCAGGCGCGGTGAGATCGTTGGTGGAGTTTACGTGCTACACGACAGG 120
DB      61  ACGTTAAGTTCCAGGCGCGGTGAGATCGTTGGTGGAGTTTACGTGCTACACGACAGG 120

QY      121  GCCCCAGTTGGGTGTCGTGAGTGGCGCAAGACTTCCGAGCGGTGCGCAACTGCGAGTA 180
DB      121  GCCCCAGTTGGGTGTCGTGAGTGGCGCAAGACTTCCGAGCGGTGCGCAACTGCGAGTA 180

QY      181  GCGGCCAACCCATCCAGGCGCGCCGCGAACCAGGAGGAGGTCTCTGGGCTCAGCCCGGT 240
DB      181  GCGGCCAACCCATCCAGGCGCGCCGCGAACCAGGAGGAGGTCTCTGGGCTCAGCCCGGT 240

QY      241  ACCCTTGGCCCTTATATGGAATCAGGGCTGCGGGTGGGAGGTGGCTCTGTCTCCCGC 300
DB      241  ACCCTTGGCCCTTATATGGAATCAGGGCTGCGGGTGGGAGGTGGCTCTGTCTCCCGC 300

QY      301  GCGGCTCTC 309
DB      301  GCGGCTCTC 309

RESULT 5
US-09-851-138-59
; Sequence 59, Application US/09851138
; Publication No. US20020183508A1
; GENERAL INFORMATION:
; APPLICANT: MAERTENS, GEERT
; TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES
; AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC AGENTS
; NUMBER OF SEQUENCES: 207
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: ARNOLD, WHITE & DURKEE
; STREET: P.O. BOX 4433
; CITY: HOUSTON
; STATE: TEXAS
; COUNTRY: USA
; ZIP: 77210-4433
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Microsoft Word 6.0 / ASCII text output
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/851.138
; FILING DATE: 09-May-2001
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/836,075
; FILING DATE: <Unknown>
; APPLICATION NUMBER: EP 94870166.9
; FILING DATE: 21 Oct 1994
; APPLICATION NUMBER: EP 95870076.7
; FILING DATE: 28 Jun 1995
; ATTORNEY/AGENT INFORMATION:
; NAME: KAMMERER, PATRICIA A.
; REGISTRATION NUMBER: 29,775
; REFERENCE/DOCKET NUMBER: INNS:004
; INFORMATION FOR SEQ ID NO: 59:

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; SEQUENCE CHARACTERISTICS:
;   LENGTH: 652 base pairs
;   TYPE: nucleic acid
;   STRANDEDNESS: single
;   TOPOLOGY: linear
;   MOLECULE TYPE: cDNA
;   HYPOTHETICAL: NO
;   ANTI-SENSE: NO
; SEQUENCE DESCRIPTION: SEQ ID NO: 59:
US-09-851-138-59

Query Match      75.4%; Score 261.6; DB 9; Length 652;
Best Local Similarity 86.7%; Pred. No. 2.5e-70;
Matches 299; Conservative 0; Mismatches 45; Indels 1; Gaps 1;

QY 1 ATGAGCACACTTCTTAACACACAAAGAAAACCAAAAGAAAACCAACCAACCCGCGCCACAG 59
Db 239 ATGAGCACGAATCTTAACCTCAAGAAAACCAAAAGAAAACCAACCAACCCGCGCCACAG 298
QY 60 GACGTTAAGTTCCAGCGCGGTTCAGATCGTTGGTGGAGTTTACGTGCTACCAACGCGAG 119
Db 299 GAGTCAAGTTCCGGCGGTGGCCAGATCGTTGGTGGAGTCTACGTGCTACCGCGAGG 358
QY 120 GGGCCCCAGTTGGGTGTCGTCAGTGCAGTGCAGCAAGACTTCCGAGCGGTGCGCAACCTCGCAGT 179
Db 359 GGCCTTAGATTGGGTGTCGCGCAGCGCGAAGACTTCGGAGCGGTGCGCAACCTCGTGGG 418
QY 180 AGCGGCCAACCATCCCGAGCGCGCGCGCAACCGAGCGGAGTCTGGGTCTAGCCCGGG 239
Db 419 AGCGGCCAACCTATTCCCAAGAGCGCGCGCAACCGAGCGGAGTCTGGGCGCAGCCCGG 478
QY 240 TACCTTTGGCCCTATATGGAATGAGGCTGCGGGTGGGCGAGGTGGCTCTCTGTCCCG 299
Db 479 TACCTTGGCCCTCTATGTAACGAGGCTGCGGGTGGGCGAGTGGCTCTCTGTCCCG 538
QY 300 CGCGGCTCTCGCCCGTCTGTTGGGCGCCAAATGACCCCGCGCAGG 344
Db 539 CGCGGCTCCGCTCCTAGTTGGGCTCTTACTGACCCCGCGGTAGG 583

RESULT 6
US-09-899-046-165
; Sequence 165, Application US/09899046
; Publication No. US2003008274A1
; GENERAL INFORMATION:
; APPLICANT:
; TITLE OF INVENTION: New sequences of hepatitis C virus
; TITLE OF INVENTION: genotypes for diagnosis, prophylaxis and therapy.
; NUMBER OF SEQUENCES: 270
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25 (BPO)
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/899,046
; FILING DATE:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/362,455
; FILING DATE:
; INFORMATION FOR SEQ ID NO: 165:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 499 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA (genomic)
; HYPOTHETICAL: NO
; ANTI-SENSE: NO
US-09-899-046-165

Query Match      75.4%; Score 260.2; DB 10; Length 499;
Best Local Similarity 86.3%; Pred. No. 6.5e-70;
Matches 297; Conservative 0; Mismatches 46; Indels 1; Gaps 1;

QY 1 ATGAGCACACTTCTTAACACACAAAGAAAACCAAAAGAAAACCAACCCGCGCCACAG 59
Db 1 ATGAGCACGAATCTTAACCTCAAGAAAACCAAAAGAAAACCAACCAACCCGCGCCATG 60
QY 60 GACGTTAAGTTCCAGCGCGGTTCAGATCGTTGGTGGAGTTTACGTGCTACCAACGCGAG 119
Db 61 GAGTTAAGTTCCAGCGCGGTTCAGATCGTTGGGCGAGTTTACTTGTTCGCGCGAGG 120
QY 120 GGGCCCCAGTTGGGTGTCGTCAGTGCAGTGCAGCAAGACTTCGAGCGGTGCGCAACCTCGCAGT 179
Db 121 GGGCCCCAGTTGGGTGTCGCGCGACTCGAAGACTTCGAGCGGTGCGCAACCTCGTGGG 180

US-09-878-281-165
; Sequence 165, Application US/09878281
; Publication No. US20030032005A1
; GENERAL INFORMATION:
; APPLICANT:
; TITLE OF INVENTION: New sequences of hepatitis C virus
; TITLE OF INVENTION: genotypes for diagnosis, prophylaxis and therapy.
; NUMBER OF SEQUENCES: 270
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25 (BPO)
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/878,281
; FILING DATE:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/362,455
; FILING DATE:
; INFORMATION FOR SEQ ID NO: 165:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 499 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA (genomic)
; HYPOTHETICAL: NO
; ANTI-SENSE: NO
US-09-878-281-165

Query Match      75.4%; Score 260.2; DB 10; Length 499;
Best Local Similarity 86.3%; Pred. No. 6.5e-70;
Matches 297; Conservative 0; Mismatches 46; Indels 1; Gaps 1;

QY 1 ATGAGCACACTTCTTAACACACAAAGAAAACCAAAAGAAAACCAACCCGCGCCACAG 59
Db 1 ATGAGCACGAATCTTAACCTCAAGAAAACCAAAAGAAAACCAACCAACCCGCGCCATG 60
QY 60 GACGTTAAGTTCCAGCGCGGTTCAGATCGTTGGTGGAGTTTACGTGCTACCAACGCGAG 119
Db 61 GAGTTAAGTTCCAGCGCGGTTCAGATCGTTGGGCGAGTTTACTTGTTCGCGCGAGG 120
QY 120 GGGCCCCAGTTGGGTGTCGTCAGTGCAGTGCAGCAAGACTTCGAGCGGTGCGCAACCTCGCAGT 179
Db 121 GGGCCCCAGTTGGGTGTCGCGCGACTCGAAGACTTCGAGCGGTGCGCAACCTCGTGGG 180
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QY 180 AGCGCCCAACCCATCCCAAGGCGCGCCGAAACCGAGGCGAGTCTCTGGGCTCAGCCCGG 239
 Db 181 AGCGCCCAACCTATCCCAAGGCGCGCCGAAACCGAGGCGAGTCTCTGGGCGAGCCCGG 240
 QY 240 TACCCTTGGCCCTATATGGAATAGGCTCGGCTGGGCGAGGCTCTGTCTCTGTCCTG 299
 Db 241 TATCTTGGCCCTTATACGCAATAGGCTGTGGTGGGCGAGGCTCTGTCTCTGTCCTT 300
 QY 300 CGCGGCTCTCGCCGCTGTGGGCGCCCAAAATGACCCCGCGCGAG 343
 Db 301 CGCGGNTCTCGGCGCTCTGGGCGCCCAATGATCCCGGCGAG 344

RESULT 8
 US-09-873-224-165
 ; Sequence 165, Application US/09873224
 ; Publication No. US20030964360A1
 ; GENERAL INFORMATION:
 ; APPLICANT: <Unknown>
 ; TITLE OF INVENTION: New sequences of hepatitis C virus
 ; genotypes for diagnosis, prophylaxis and therapy.
 ; NUMBER OF SEQUENCES: 270
 ; CORRESPONDENCE ADDRESS:
 ; STREET: Industriepark Zwijnaarde 7, box 4
 ; CITY: Ghent
 ; COUNTRY: Belgium
 ; ZIP: B-9052
 ; COMPUTER READABLE FORM:
 ; MEDIUM TYPE: Floppy disk
 ; COMPUTER: IBM PC compatible
 ; OPERATING SYSTEM: PC-DOS/MS-DOS
 ; SOFTWARE: Patent In Release #1.0, Version #1.25 (EPO)
 ; CURRENT APPLICATION DATA:
 ; APPLICATION NUMBER: US/09/873,224
 ; FILING DATE: 05-Jun-2001
 ; CLASSIFICATION: <Unknown>
 ; PRIOR APPLICATION DATA:
 ; APPLICATION NUMBER: 08/362,455
 ; FILING DATE: <Unknown>
 ; ATTORNEY/AGENT INFORMATION:
 ; NAME: Innogenetics sa.
 ; TELECOMMUNICATION INFORMATION:
 ; TELEPHONE: 00 32 9 241 07 11
 ; TELEFAX: 00 32 9 241 07 99
 ; INFORMATION FOR SEQ ID NO: 165:
 ; SEQUENCE CHARACTERISTICS:
 ; LENGTH: 499 base pairs
 ; TYPE: nucleic acid
 ; STRANDEDNESS: single
 ; TOPOLOGY: linear
 ; MOLECULE TYPE: DNA (genomic)
 ; HYPOTHETICAL: NO
 ; ANTI-SENSE: NO
 ; SEQUENCE DESCRIPTION: SEQ ID NO: 165:
 US-09-873-224-165

Query Match 75.4%; Score 260.2; DB 10; Length 499;
 Best Local Similarity 86.3%; Pred. No. 6.5e-70; Indels 1; Gaps 1;
 Matches 297; Conservative 0; Mismatches 46;
 QY 1 ATGAGCACATCTCTAAACCAAGAAAAACCAAGAAAAACCAACCCCGGCCACA-G 59
 Db 1 ATGAGCACGAATCTTAACCTCAAGAAAAACCAACGTAACCAACCGCGCCCTATG 60
 QY 60 GACGTTAAGTTCACAGCGCGGTGAGATCGTTGGTGGAGTTTACGTGTACACGACAG 119
 Db 61 GACGTTAAGTTCACAGCGGTGAGATCGTTGGTGGAGTTTACTTTGTCGCGCAGG 120
 QY 120 GCGCCCAAGTTCGCGGTGAGTCCGAGACTTCGAGCGGTTCGCAACTCGCAGT 179
 Db 121 GCGCCCAAGTTCGCGGTGAGTCCGAGACTTCGAGCGGTTCGCAACTCGCAGT 180

QY 180 AGCGCCCAACCCATCCCAAGGCGCGCCGAAACCGAGGCGAGTCTCTGGGCTCAGCCCGG 239
 Db 181 AGCGCCCAACCTATCCCAAGGCGCGCCGAAACCGAGGCGAGTCTCTGGGCGAGCCCGG 240
 QY 240 TACCCTTGGCCCTATATGGAATAGGCTCGGCTGGGCGAGGCTCTGTCTCTGTCCTG 299
 Db 241 TATCTTGGCCCTTATACGCAATAGGCTGTGGTGGGCGAGGCTCTGTCTCTGTCCTT 300
 QY 300 CGCGGCTCTCGCCGCTGTGGGCGCCCAAAATGACCCCGCGCGAG 343
 Db 301 CGCGGNTCTCGGCGCTCTGGGCGCCCAATGATCCCGGCGAG 344

RESULT 9
 US-09-194-949-5
 ; Sequence 5, Application US/09194949
 ; Publication No. US20030053987A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Merck & Co., Inc.
 ; APPLICANT: Donnelly, John J.
 ; APPLICANT: Fu, Tong-Ming
 ; APPLICANT: Liu, Margaret A.
 ; APPLICANT: Shiver, John W.
 ; TITLE OF INVENTION: SYNTHETIC HEPATITIS C GENES
 ; FILE REFERENCE: 19732YP
 ; CURRENT APPLICATION NUMBER: US/09/194,949
 ; CURRENT FILING DATE: 2000-02-17
 ; PRIOR APPLICATION NUMBER: PCT/US97/09884
 ; PRIOR FILING DATE: 1997-06-06
 ; PRIOR APPLICATION NUMBER: 60/020,494
 ; PRIOR FILING DATE: 1996-06-11
 ; PRIOR APPLICATION NUMBER: 60/033,534
 ; PRIOR FILING DATE: 1996-12-20
 ; NUMBER OF SEQ ID NOS: 25
 ; SOFTWARE: FastSeq for Windows Version 4.0
 ; SEQ ID NO 5
 ; LENGTH: 573
 ; TYPE: DNA
 ; ORGANISM: Hepatitis C Virus
 US-09-194-949-5

Query Match 75.2%; Score 259.4; DB 10; Length 573;
 Best Local Similarity 86.4%; Pred. No. 1.2e-69;
 Matches 298; Conservative 0; Mismatches 46; Indels 1; Gaps 1;
 QY 1 ATGAGCACATCTCTAAACCAAGAAAAACCAAGAAAAACCAACCCCGGCCACA 59
 Db 1 ATGAGCACGAATCTTAACCTCAAGAAAAACCAACGTAACCAACCGCGCCCGCACA 60
 QY 60 GACGTTAAGTTCACAGCGCGGTGAGATCGTTGGTGGAGTTTACGTGTACACGACAG 119
 Db 61 GACGTTAAGTTCACAGCGGTGAGATCGTTGGTGGAGTTTACTTTGTCGCGCAGG 120
 QY 120 GCGCCCAAGTTCGCGGTGAGTCCGAGACTTCGAGCGGTTCGCAACTCGCAGT 179
 Db 121 GCGCCCAAGTTCGCGGTGAGTCCGAGACTTCGAGCGGTTCGCAACTCGCAGT 180
 QY 180 AGCGCCCAACCCATCCCAAGGCGCGCCGAAACCGAGGCGAGTCTCTGGGCTCAGCCCGG 239
 Db 181 AGCGCCCAACCTATCCCAAGGCGCGCCGAAACCGAGGCGAGTCTCTGGGCGAGCCCGG 240
 QY 240 TACCCTTGGCCCTTATGGAATAGGCTGTGGGCTGGGCGAGGCTCTGTCTCTGTCCTG 299
 Db 241 TACCCTTGGCCCTTATGGAATAGGCTGTGGGCTGGGCGAGGATGCTCTGTCTCTGTCCT 300
 QY 300 CGCGGCTCTCGCCGCTGTGGGCGCCAAATGACCCCGCGCGAG 344
 Db 301 CGCGGCTCTCGCCCTAGTTGGGCGCCCACTGACCCCGCGGTAGG 345

RESULT 10
 US-10-664-391-5
 ; Sequence 5, Application US/10664391


```
; HYPOTHETICAL: NO
; ANTI-SENSE: NO
; FEATURE:
; NAME/KEY: CDS
; LOCATION: 1..499
; FEATURE:
; NAME/KEY: mat_peptide
; LOCATION: 1..496
;
US-09-878-281-163

Query Match      73.8%; Score 254.6; DB 10; Length 499;
Best Local Similarity 85.5%; Pred. No. 3.4e-68;
Matches 295; Conservative 0; Mismatches 49; Indels 1; Gaps 1;

QY 1 ATGAGCACACTTCTCTAAACCAACAAAGAAAAACCAACCAACCCCGGCCACA-G 59
DB 1 ATGAGCACGAATCTTAACTTCAAGAAAAACCAACCAACCCCGGCCCATG 60
QY 60 GACGTTAAGTTCACGCGCGGTGAGATCGTTGGTGAGTTTACGTCTACACGCGAG 119
DB 61 GACGTTAAGTTCACGCGGTGAGATCGTTGGTGAGTTTACGTCTACACGCGAG 120
QY 120 GSCCGCCAGTTCGCGGTGAGTCCGAGACTTCCGAGCGGTTCGCAACTCGCACT 179
DB 121 GSCCGTTCGCGGTGAGTCCGAGACTTCCGAGCGGTTCGCAACTCGCACT 180
QY 180 AGCGCCCAACCCATCCCGCGCGCGCGAGCGAGGTCTCTGGGCTCAGCCCGGG 239
DB 181 AGCGCCCAACCTATCCCGCGCGCGAGCGAGGTCTCTGGGCTCAGCCCGGG 240
QY 240 TACCTTGGCCCTATATGGGAATAGGCGTCCGCGGTGGCGAGGTCTCTGTCCCG 299
DB 241 TATCCTTGGCCCTTATACGCAATAGGCGTCTGGGTGGCGAGGTCTCTGTCCCG 300
QY 300 CGCGGCTCTCGCGCGGTTCGCGCGCAATGACCCCGCGCGAGG 344
DB 301 CGCGGCTCTCGCGCGGTTCGCGCGCAATGATATCCCGCGGAGG 345

RESULT 14
US-09-873-224-163
; Sequence 163, Application US/09873224
; Publication No. US20030064360A1
; GENERAL INFORMATION:
; APPLICANT:
; TITLE OF INVENTION: New sequences of hepatitis C virus
; NUMBER OF SEQUENCES: 270
; CORRESPONDENCE ADDRESS:
; STREET: Industriepark Zwijnaarde 7, box 4
; CITY: Ghent
; COUNTRY: Belgium
; ZIP: B-9052
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25 (EPO)
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/873,224
; FILING DATE: 05-Jun-2001
; CLASSIFICATION: <Unknown>
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/362,455
; FILING DATE: <Unknown>
; ATTORNEY/AGENT INFORMATION:
; NAME: Innogenetics sa.
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 00 32 9 241 07 11
; TELEFAX: 00 32 9 241 07 99
; INFORMATION FOR SEQ ID NO: 163:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 499 base pairs
```

```
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA
; HYPOTHETICAL: NO
; ANTI-SENSE: NO
; FEATURE:
; NAME/KEY: CDS
; LOCATION: 1..499
; FEATURE:
; NAME/KEY: mat_peptide
; LOCATION: 1..496
;
US-09-873-224-163

Query Match      73.8%; Score 254.6; DB 10; Length 499;
Best Local Similarity 85.5%; Pred. No. 3.4e-68;
Matches 295; Conservative 0; Mismatches 49; Indels 1; Gaps 1;

QY 1 ATGAGCACACTTCTCTAAACCAACAAAGAAAAACCAACCAACCCCGGCCACA-G 59
DB 1 ATGAGCACGAATCTTAACTTCAAGAAAAACCAACCAACCCCGGCCCATG 60
QY 60 GACGTTAAGTTCACGCGCGGTGAGATCGTTGGTGAGTTTACGTCTACACGCGAG 119
DB 61 GACGTTAAGTTCACGCGGTGAGATCGTTGGTGAGTTTACGTCTACACGCGAG 120
QY 120 GSCCGCCAGTTCGCGGTGAGTCCGAGACTTCCGAGCGGTTCGCAACTCGCACT 179
DB 121 GSCCGTTCGCGGTGAGTCCGAGACTTCCGAGCGGTTCGCAACTCGCACT 180
QY 180 AGCGCCCAACCCATCCCGCGCGCGAGCGAGGTCTCTGGGCTCAGCCCGGG 239
DB 181 AGCGCCCAACCTATCCCGCGCGCGAGCGAGGTCTCTGGGCTCAGCCCGGG 240
QY 240 TACCTTGGCCCTATATGGGAATAGGCGTCCGCGGTGGCGAGGTCTCTGTCCCG 299
DB 241 TATCCTTGGCCCTTATACGCAATAGGCGTCTGGGTGGCGAGGTCTCTGTCCCG 300
QY 300 CGCGGCTCTCGCGCGGTTCGCGCGCAATGACCCCGCGCGAGG 344
DB 301 CGCGGCTCTCGCGCGGTTCGCGCGCAATGATATCCCGCGGAGG 345

RESULT 14
US-09-899-046-193
; Sequence 193, Application US/09899046
; Publication No. US20030008274A1
; GENERAL INFORMATION:
; APPLICANT:
; TITLE OF INVENTION: New sequences of hepatitis C virus
; NUMBER OF SEQUENCES: 270
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25 (EPO)
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/899,046
; FILING DATE:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/362,455
; FILING DATE:
; INFORMATION FOR SEQ ID NO: 193:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 498 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA
; HYPOTHETICAL: NO
; ANTI-SENSE: NO
```


Result No.	Score	Query Match	Length	DB	ID	Description
1	115	100.0	115	4	US-09-678-281A-148	Sequence 148, App
2	98	85.2	115	3	US-08-836-075A-50	Sequence 50, App
3	83	72.2	100	4	US-08-635-886C-233	Sequence 233, App
4	83	72.2	100	4	US-08-374-690C-233	Sequence 233, App
5	44	38.3	124	1	US-08-344-116B-15	Sequence 15, App
6	44	38.3	166	4	US-09-678-281A-164	Sequence 164, App
7	44	38.3	191	2	US-08-290-665A-187	Sequence 187, App
8	44	38.3	191	2	US-08-290-665A-188	Sequence 188, App
9	44	38.3	191	2	US-08-290-665A-189	Sequence 189, App
10	44	38.3	191	2	US-08-290-665A-190	Sequence 190, App
11	44	38.3	191	2	US-08-290-665A-191	Sequence 191, App
12	44	38.3	191	2	US-08-290-665A-192	Sequence 192, App

QY 121 GCGCCAGTTGGTGTGCGTGCAGTGCAGCAAGACTTCCGAGCGGTGCGCAACCTCGCAGTA 180
Db 41 AlaProSerTrpValCysValGlnCysAlaArgLeuProSerGlyArgAsnLeuAlaVal 60
QY 181 GCGCCCAACCATCCCGAGCGCGCGCGCAACCGAGGCGAGGTCTCGGGTTCAGCCCGGT 240
Db 61 GlyAlaAsnProSerProGlyArgAlaGluProArgAlaGlyProGlyLeuSerProGly 80
QY 241 ACCTTGGCCCCATATATGGAATAGGGCTGCGGGTGGGAGGGTGGCTCTGTCCTCCCGC 300
Db 81 ThrLeuGlyProTyrMetGlyMetAlaAlaGlyGlyGlnGlySerCysProArg 100
QY 301 CGCGCTCCCGCTGCTGGGGCCCCAAATGACCCCGCGCGCAGA 345
Db 101 AlaAlaLeuAlaArgArgGlyAlaGlnMetThrProGlyAlaGly 115
RESULT 2
US-08-836-075A-50
; Sequence 50, Application US/08836075A
; Patent No. 6180768
; GENERAL INFORMATION:
; APPLICANT: MAERTENS, GEERT
; APPLICANT: STUYVER, LIEVEN
; TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES
; TITLE OF INVENTION: AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC
; TITLE OF INVENTION: AGENTS
; NUMBER OF SEQUENCES: 207
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: ARNOLD, WHITE & DURKEE
; STREET: P. O. BOX 4433
; CITY: HOUSTON
; STATE: TEXAS
; COUNTRY: USA
; ZIP: 77210-4433
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Microsoft Word 6.0 / ASCII text output
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/836, 075A
; FILING DATE: 21 Apr 1997
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: PCT/EP95/04155
; FILING DATE: 23 Oct 1995
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: EP 94870166.9
; FILING DATE: 21 Oct 1994
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: EP 95870076.7
; FILING DATE: 28 Jun 1995
; ATTORNEY/AGENT INFORMATION:
; NAME: KAMMERER, PATRICIA A.
; REGISTRATION NUMBER: 29,775
; REFERENCE/DOCKET NUMBER: INNS:004
; INFORMATION FOR SEQ ID NO: 50:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 115 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
US-08-836-075A-50
Alignment Scores:
Pred. No.: 7,87e-83 Length: 115
Score: 98.00 Matches: 98
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: -100.00% Mismatches: 0
Query Match: 85.22% Indels: 0
DB: 3 Gaps: 0
US-09-873-224A-147 (1-345) x US-08-836-075A-50 (1-115)

QY 51 CGGCCACAGGAGCTTAAGTTCCAGCGCGGTGAGATCGTTGGTGGAGTTTACGTGCTA 110
Db 18 ArgProGlnAspValIysPheProGlyGlyGlnIleValGlyValTyrValLeu 37
QY 111 CCACGACAGGGCCCCCAGTTGGTGTGCGTGCAGTGCAGCAAGACTTCCGAGCGGTGCGCA 170
Db 38 ProArgArgGlyProGlnLeuGlyValArgAlaValArgLysThrSerGluArgSerGln 57
QY 171 CTGCGAGTAGCGCCCAACCCATCCCGAGGCGCGCCGACCGAGGCGAGTCTCTGGGCT 230
Db 58 ProArgSerArgArgGlnProIleProArgAlaArgThrGluGlyArgSerTrpAla 77
QY 231 CAGCCCGGGTACCTTGGCCCTATATGGAATAGGGCTGCGGGTGGGACAGGTGGCTC 290
Db 78 GlnProGlyTyrProTrpProLeuTyrGlyAsnGluGlyCysGlyTrpAlaGlyTrpLeu 97
QY 291 CTGTCCCGCGCGGTCTCGCCCTGCTGGGGCCCCAAATGACCCCGCGCGCAGG 344
Db 98 LeuSerProArgGlySerArgProSerTrpGlyProAsnAspProArgArg 115
RESULT 3
US-08-635-886C-233
; Sequence 233, Application US/08635886C
; Patent No. 6555114
; GENERAL INFORMATION:
; APPLICANT: LEROUX-ROELS, Geert
; APPLICANT: DELEYS, Robert
; APPLICANT: MAERTENS, Geert
; TITLE OF INVENTION: IMMUNODOMINANT HUMAN T CELL EPITOPES OF HEPATITIS C
; TITLE OF INVENTION: VIRUS
; FILE REFERENCE: 2752-18
; CURRENT APPLICATION NUMBER: US/08/635, 886C
; CURRENT FILING DATE: 1996-04-25
; PRIOR APPLICATION NUMBER: PCT/EP94/03555
; PRIOR FILING DATE: 1994-10-28
; PRIOR APPLICATION NUMBER: EP 93402718.6
; PRIOR FILING DATE: 1993-11-04
; NUMBER OF SEQ ID NOS: 286
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 233
; LENGTH: 100
; TYPE: PRT
; ORGANISM: hepatitis C virus
; FEATURE:
; NAME/KEY: MISC_FEATURE
; LOCATION: (17)..(17)
; OTHER INFORMATION: Xaa is any amino acid
US-08-635-886C-233
Alignment Scores:
Pred. No.: 6.9e-69 Length: 100
Score: 83.00 Matches: 83
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 72.17% Indels: 0
DB: 4 Gaps: 0
US-09-873-224A-147 (1-345) x US-08-635-886C-233 (1-100)
QY 51 CGGCCACAGGAGCTTAAGTTCCAGCGCGGTGAGATCGTTGGTGGAGTTTACGTGCTA 110
Db 18 ArgProGlnAspValIysPheProGlyGlyGlnIleValGlyValTyrValLeu 37
QY 111 CCACGACAGGGCCCCCAGTTGGTGTGCGTGCAGTGCAGCAAGACTTCCGAGCGGTGCGCA 170
Db 38 ProArgArgGlyProGlnLeuGlyValArgAlaValArgLysThrSerGluArgSerGln 57
QY 171 CTGCGAGTAGCGCCCAACCCATCCCGAGGCGCGCCGACCGAGGCGAGTCTCTGGGCT 230
Db 58 ProArgSerArgArgGlnProIleProArgAlaArgThrGluGlyArgSerTrpAla 77
QY 231 CAGCCCGGGTACCTTGGCCCTGCTGGGGCCCCAAATGACCCCGCGCGCAGG 290

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Db 78 GlnProGlyTyrProTrpProLeuTyrGlyAsnGluGlyCysGlyTrpAlaGlyTrpLeu 97
Qy 291 CTGTCCCG 299
Db 98 LeuSerPro 100

RESULT 4
US-08-974-690C-233
; Sequence 233, Application US/08974690C
; Patent No. 6613333
; GENERAL INFORMATION:
; APPLICANT: LEROUX-ROELS, Geert
; APPLICANT: DELEYS, Robert
; APPLICANT: MAERTENS, Geert
; TITLE OF INVENTION: IMMUNODOMINANT HUMAN T CELL EPITOPES OF HEPATITIS C
; FILE REFERENCE: 2551-94
; CURRENT APPLICATION NUMBER: US/08/974,690C
; PRIOR FILING DATE: 1997-11-19
; PRIOR APPLICATION NUMBER: PCT/EP94/03555
; PRIOR FILING DATE: 1994-10-28
; PRIOR APPLICATION NUMBER: EP 93402718.6
; PRIOR FILING DATE: 1993-11-04
; NUMBER OF SEQ ID NOS: 286
; SOFTWARE: Patent in version 3.1
; SEQ ID NO 233
; LENGTH: 100
; TYPE: PRT
; ORGANISM: hepatitis C virus
; FEATURE:
; NAME/KEY: MISC FEATURE
; LOCATION: (17)..(17)
; OTHER INFORMATION: Xaa is any amino acid
US-08-974-690C-233

Alignment Scores:
Pred. No.: 6.9e-69 Length: 100
Score: 83.00 Matches: 83
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 72.17% Indels: 0
DB: 4 Gaps: 0

US-09-873-224A-147 (1-345) x US-08-974-690C-233 (1-100)
Qy 51 CGGCCACAGGACGTTAAGTTCACAGCGCGGTCCAGATCGTTGGTGGAGTTTACGTGCTA 110
Db 18 ArgProGlnAspValLysPheProGlyGlyGlnIleValGlyValTyrValLeu 37

Qy 111 CCAGCGAGGGCCCCCAGTGTGGGTGTGCGTGCAGTGCAGACACTTCCGAGCGGTGCGCAA 170
Db 38 ProArgArgGlyProGlnLeuGlyValArgAlaValArgLysThrSerGluArgSerGln 57

Qy 171 CTGCGACTAGGCGCAACCCATCCCGAGCGCGCGCAACCCGAGGCGAGTCTCGGGCT 230
Db 58 ProArgSerArgArgGlnProIleProArgAlaArgArgThrGluGlyArgSerTrpAla 77

Qy 231 CAGCCCGGTACCTTGGCCCTATATGGGAATGAGGGCTCGGGTGGCGAGGGTGGCTC 290
Db 78 GlnProGlyTyrProTrpProLeuTyrGlyAsnGluGlyCysGlyTrpAlaGlyTrpLeu 97

Qy 291 CTGTCCCG 299
Db 98 LeuSerPro 100

RESULT 5
US-08-244-116B-15
; Sequence 15, Application US/08244116B
; Patent No. 5763159
; GENERAL INFORMATION:
; APPLICANT: Simmonds, Peter
; APPLICANT: Chan, Shiu-Wan
```

```
; APPLICANT: Yap, Peng L.
; TITLE OF INVENTION: Hepatitis-C Virus Testing
; NUMBER OF SEQUENCES: 53
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Bell, Seltzer, Park & Gibson, P.A.
; STREET: 1211 East Morehead Street
; CITY: Charlotte
; STATE: No. 5763159th Carolina
; COUNTRY: United States
; ZIP: 28234
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0. Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/244,116B
; FILING DATE: 15-JUL-1994
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: PCT/GB92/02143
; FILING DATE: 20-NOV-1992
; ATTORNEY/AGENT INFORMATION:
; NAME: Sibley, Kenneth D.
; REGISTRATION NUMBER: 31,665
; REFERENCE/DOCKET NUMBER: 1749-125
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 704-377-1561
; TELEFAX: 704-334-2014
; INFORMATION FOR SEQ ID NO: 15:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 124 amino acids
; TYPE: amino acid
; STRANDEDNESS:
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; HYPOTHEetical: yes
; FRAGMENT TYPE: internal
; ORIGINAL SOURCE:
; ORGANISM: Hepatitis-C virus
US-08-244-116B-15

Alignment Scores:
Pred. No.: 1.13e-32 Length: 124
Score: 44.00 Matches: 44
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 38.26% Indels: 0
DB: 1 Gaps: 0

US-09-873-224A-147 (1-345) x US-08-244-116B-15 (1-124)
Qy 213 GAGGGCAGGTCTGGGCTCAGCCGGTACCTTGGCCCTATATGGGAATGAGGCTGC 272
Db 68 GluGlyArgSerTrpAlaGlnProGlyTyrProTrpProLeuTyrGlyAsnGlyCys 87

Qy 273 GGGTGGCGAGGTGGCTCTCTCCCGCGGGCTCTCGCCGCTGGGGGCCCAATGAC 332
Db 88 GlyTrpAlaGlyTrpLeuLeuSerProArgGlySerArgProSerTrpGlyProAsnAsp 107

Qy 333 CCCCAGCGCAGG 344
Db 108 ProArgArgArg 111

RESULT 6
US-09-878-281A-164
; Sequence 164, Application US/09878281A
; Patent No. 6762024
; GENERAL INFORMATION:
; APPLICANT: Innogenetics N.V.
; TITLE OF INVENTION: New sequences of hepatitis C virus genotypes for diagnosis, prophylaxis, and therapy
; FILE REFERENCE: 35
```

; CURRENT APPLICATION NUMBER: US/09/878,281A
 ; CURRENT FILING DATE: 2001-06-12
 ; NUMBER OF SEQ ID NOS: 284
 ; SOFTWARE: Patent in version 3.1
 ; SEQ ID NO 164
 ; LENGTH: 166
 ; TYPE: PROT
 ; ORGANISM: hepatitis C virus
 ; US-09-878-281A-164

Alignment Scores:
 Pred. No.: 1,08e-32 Length: 166
 Score: 44.00 Matches: 44
 Percent Similarity: 100.00% Conservatives: 0
 Best Local Similarity: 100.00% Mismatches: 0
 Query Match: 38.26% Indels: 0
 DB: 4 Gaps: 0

US-09-873-224A-147 (1-345) x US-09-878-281A-164 (1-166)

QY 213 GAGGCGAGTCTGGGCTCAGCCGGGTACCTTGGCCCTATATGGGAATGAGGGCTGC 272
 Db 72 GluGlyArgSerTrpAlaGlnProGlyTyProTrpProLeuTyGlyAsnGluGlyCys 91
 QY 273 GGGTGGCGAGGGTGGCTCTCCCGCGGGCTCTCCCGCGGGTCTCGCCGGCCCAAAATGAC 332
 Db 92 GlyTrpAlaGlyTrpLeuSerProArgGlySerArgProSerTrpGlyProAsnAsp 111
 QY 333 CCCCAGCGCAGG 344
 Db 112 ProArgArg 115

RESULT 7

US-08-290-665A-187
 ; Sequence 187, Application US/08290665A
 ; Patent No. 5882852

; GENERAL INFORMATION:
 ; APPLICANT: BUKH, J., MILLER, R.H. AND
 ; APPLICANT: PURCELL, R.H.
 ; TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED
 ; TITLE OF INVENTION: AMINO ACID SEQUENCES OF THE ENVELOPE 1 AND
 ; TITLE OF INVENTION: CORE GENES OF ISOLATES OF HEPATITIS C VIRUS
 ; TITLE OF INVENTION: AND THE USE OF REAGENTS DERIVED FROM THESE
 ; TITLE OF INVENTION: SEQUENCES IN DIAGNOSTIC METHODS AND VACCINES
 ; NUMBER OF SEQUENCES: 263

; CORRESPONDENCE ADDRESS:
 ; ADDRESSEE: MORGAN & FINNEGAN
 ; STREET: 345 PARK AVENUE
 ; CITY: NEW YORK
 ; STATE: NEW YORK
 ; COUNTRY: USA
 ; ZIP: 10154

; COMPUTER READABLE FORM:
 ; MEDIUM TYPE: FLOPPY DISK
 ; COMPUTER: IBM PC COMPATIBLE
 ; OPERATING SYSTEM: PC-DOS/MS-DOS
 ; SOFTWARE: WORDPERFECT 5.1
 ; CURRENT APPLICATION DATA:
 ; APPLICATION NUMBER: US/08/290,665A
 ; FILING DATE: 15-AUG-1994
 ; CLASSIFICATION: 435

; ATTORNEY/AGENT INFORMATION:
 ; NAME: RICHARD W. BORK
 ; REGISTRATION NUMBER: 36,459
 ; REFERENCE/DOCKET NUMBER: 2026-4116
 ; TELECOMMUNICATION INFORMATION:
 ; TELEPHONE: (212) 758-4800
 ; TELEFAX: (212) 751-6849
 ; TELEX: 421792
 ; INFORMATION FOR SEQ ID NO: 187:
 ; SEQUENCE CHARACTERISTICS:
 ; LENGTH: 191 amino acids
 ; TYPE: amino acid

; STRANDEDNESS: unknown
 ; TOPOLOGY: unknown
 ; ORIGINAL SOURCE:
 ; ORGANISM: homopiapiens
 ; INDIVIDUAL ISOLATE: HK10
 ; US-08-290-665A-187

Alignment Scores:
 Pred. No.: 1,08e-32 Length: 191
 Score: 44.00 Matches: 44
 Percent Similarity: 100.00% Conservatives: 0
 Best Local Similarity: 100.00% Mismatches: 0
 Query Match: 38.26% Indels: 0
 DB: 2 Gaps: 0

US-09-873-224A-147 (1-345) x US-08-290-665A-187 (1-191)

QY 213 GAGGCGAGTCTGGGCTCAGCCGGGTACCTTGGCCCTATATGGGAATGAGGGCTGC 272
 Db 72 GluGlyArgSerTrpAlaGlnProGlyTyProTrpProLeuTyGlyAsnGluGlyCys 91
 QY 273 GGGTGGCGAGGGTGGCTCTCCCGCGGGCTCTCCCGCGGGTCTCGCCGGCCCAAAATGAC 332
 Db 92 GlyTrpAlaGlyTrpLeuSerProArgGlySerArgProSerTrpGlyProAsnAsp 111
 QY 333 CCCCAGCGCAGG 344
 Db 112 ProArgArg 115

RESULT 8

US-08-290-665A-188
 ; Sequence 188, Application US/08290665A
 ; Patent No. 5882852

; GENERAL INFORMATION:
 ; APPLICANT: BUKH, J., MILLER, R.H. AND
 ; APPLICANT: PURCELL, R.H.
 ; TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED
 ; TITLE OF INVENTION: AMINO ACID SEQUENCES OF THE ENVELOPE 1 AND
 ; TITLE OF INVENTION: CORE GENES OF ISOLATES OF HEPATITIS C VIRUS
 ; TITLE OF INVENTION: AND THE USE OF REAGENTS DERIVED FROM THESE
 ; TITLE OF INVENTION: SEQUENCES IN DIAGNOSTIC METHODS AND VACCINES
 ; NUMBER OF SEQUENCES: 263

; CORRESPONDENCE ADDRESS:
 ; ADDRESSEE: MORGAN & FINNEGAN
 ; STREET: 345 PARK AVENUE
 ; CITY: NEW YORK
 ; STATE: NEW YORK
 ; COUNTRY: USA
 ; ZIP: 10154

; COMPUTER READABLE FORM:
 ; MEDIUM TYPE: FLOPPY DISK
 ; COMPUTER: IBM PC COMPATIBLE
 ; OPERATING SYSTEM: PC-DOS/MS-DOS
 ; SOFTWARE: WORDPERFECT 5.1
 ; CURRENT APPLICATION DATA:
 ; APPLICATION NUMBER: US/08/290,665A
 ; FILING DATE: 15-AUG-1994
 ; CLASSIFICATION: 435

; ATTORNEY/AGENT INFORMATION:
 ; NAME: RICHARD W. BORK
 ; REGISTRATION NUMBER: 36,459
 ; REFERENCE/DOCKET NUMBER: 2026-4116
 ; TELECOMMUNICATION INFORMATION:
 ; TELEPHONE: (212) 758-4800
 ; TELEFAX: (212) 751-6849
 ; TELEX: 421792
 ; INFORMATION FOR SEQ ID NO: 188:
 ; SEQUENCE CHARACTERISTICS:
 ; LENGTH: 191 amino acids
 ; TYPE: amino acid
 ; STRANDEDNESS: unknown
 ; TOPOLOGY: unknown
 ; ORIGINAL SOURCE:


```

; ORGANISM: homosapiens
; INDIVIDUAL ISOLATE: S52
US-08-290-665A-188

Alignment Scores:
Pred. No.: 1.06e-32 Length: 191
Score: 44.00 Matches: 44
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 38.26% Indels: 0
DB: 2 Gaps: 0

US-09-873-224A-147 (1-345) x US-08-290-665A-188 (1-191)

Qy 213 GAGGCGAGGTCTGGCTCAGCCGGGTACCTTGGCCCTATATGGGAATGAGGGTGC 272
Db 72 GluGlyArgSerTrpAlaGlnProGlyTrpProTrpProLeuTyrglyAsnGluGlyCys 91
Qy 273 GGGTGGGCGAGGTGGCTCTCTCCCGCGCGGCTCTCCCGCTCGTGGGGCCCAATGAC 332
Db 92 GlyTrpAlaGlyTrpLeuLeuSerProArgGlySerArgProSerTrpGlyProAsnAsp 111
Qy 333 CCCCAGGCGCAGG 344
Db 112 ProArgArgArg 115

RESULT 9
US-08-290-665A-189
; Sequence 189, Application US/08290665A
; Patent No. 5882852
; GENERAL INFORMATION:
; APPLICANT: BUKH, J., MILLER, R.H. AND
; APPLICANT: PURCELL, R.H.
; TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED
; TITLE OF INVENTION: AMINO ACID SEQUENCES OF THE ENVELOPE 1 AND
; TITLE OF INVENTION: CORE GENES OF ISOLATES OF HEPATITIS C VIRUS
; TITLE OF INVENTION: AND THE USE OF REAGENTS DERIVED FROM THESE
; NUMBER OF SEQUENCES: 263
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: MORGAN & FINNEGAN
; STREET: 345 PARK AVENUE
; CITY: NEW YORK
; STATE: NEW YORK
; COUNTRY: USA
; ZIP: 10154
; COMPUTER READABLE FORM:
; MEDIUM TYPE: FLOPPY DISK
; COMPUTER: IBM PC COMPATIBLE
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: WORDPERFECT 5.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/290,665A
; FILING DATE: 15-AUG-1994
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: RICHARD W. BORK
; REGISTRATION NUMBER: 36,459
; REFERENCE/DOCKET NUMBER: 2026-4116
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (212) 758-4800
; TELEFAX: (212) 751-6849
; TELEX: 421792
; INFORMATION FOR SEQ ID NO: 189:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 191 amino acids
; TYPE: amino acid
; STRANDEDNESS: unknown
; TOPOLOGY: unknown
; ORGANISM: homosapiens
; INDIVIDUAL ISOLATE: S2
US-08-290-665A-189

; ORGANISM: homosapiens
; INDIVIDUAL ISOLATE: S52
US-08-290-665A-188

Alignment Scores:
Pred. No.: 1.06e-32 Length: 191
Score: 44.00 Matches: 44
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 38.26% Indels: 0
DB: 2 Gaps: 0

US-09-873-224A-147 (1-345) x US-08-290-665A-188 (1-191)

Qy 213 GAGGCGAGGTCTGGCTCAGCCGGGTACCTTGGCCCTATATGGGAATGAGGGTGC 272
Db 72 GluGlyArgSerTrpAlaGlnProGlyTrpProTrpProLeuTyrglyAsnGluGlyCys 91
Qy 273 GGGTGGGCGAGGTGGCTCTCTCCCGCGCGGCTCTCCCGCTCGTGGGGCCCAATGAC 332
Db 92 GlyTrpAlaGlyTrpLeuLeuSerProArgGlySerArgProSerTrpGlyProAsnAsp 111
Qy 333 CCCCAGGCGCAGG 344
Db 112 ProArgArgArg 115

RESULT 10
US-08-290-665A-190
; Sequence 190, Application US/08290665A
; Patent No. 5882852
; GENERAL INFORMATION:
; APPLICANT: BUKH, J., MILLER, R.H. AND
; APPLICANT: PURCELL, R.H.
; TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED
; TITLE OF INVENTION: AMINO ACID SEQUENCES OF THE ENVELOPE 1 AND
; TITLE OF INVENTION: CORE GENES OF ISOLATES OF HEPATITIS C VIRUS
; TITLE OF INVENTION: AND THE USE OF REAGENTS DERIVED FROM THESE
; NUMBER OF SEQUENCES: 263
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: MORGAN & FINNEGAN
; STREET: 345 PARK AVENUE
; CITY: NEW YORK
; STATE: NEW YORK
; COUNTRY: USA
; ZIP: 10154
; COMPUTER READABLE FORM:
; MEDIUM TYPE: FLOPPY DISK
; COMPUTER: IBM PC COMPATIBLE
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: WORDPERFECT 5.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/290,665A
; FILING DATE: 15-AUG-1994
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: RICHARD W. BORK
; REGISTRATION NUMBER: 36,459
; REFERENCE/DOCKET NUMBER: 2026-4116
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (212) 758-4800
; TELEFAX: (212) 751-6849
; TELEX: 421792
; INFORMATION FOR SEQ ID NO: 190:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 191 amino acids
; TYPE: amino acid
; STRANDEDNESS: unknown
; TOPOLOGY: unknown
; ORGANISM: homosapiens
; INDIVIDUAL ISOLATE: DK12
US-08-290-665A-190

Alignment Scores:
Pred. No.: 1.06e-32 Length: 191

```

Score: 44.00 Matches: 44
 Percent Similarity: 100.00% Conservative: 0
 Best Local Similarity: 100.00% Mismatches: 0
 Query Match: 38.26% Indels: 0
 DB: 2 Gaps: 0

US-09-873-224A-147 (1-345) x US-08-290-665A-190 (1-191)

QY 213 GAGGCGAGGCTCTGGGCTCAGCCGGGTACCTTGGCCCTATATGGGATGAGGCTGC 272
 |||||
 Db 72 GluGlyArgSerTrpAlaGlnProGlyTyrProTrpProLeuTyrGlyAsnGluGlyCys 91
 |||||
 QY 273 GGGTGGCGAGGCTGCTCTGTCTCCCGCGGGCTCTCGCCGCTCGTGGGCCCCAAATGAC 332
 |||||
 Db 92 GlyTrpAlaGlyTrpLeuLeuSerProArgGlySerArgProSerTrpGlyProAsnAsp 111
 |||||

QY 333 CCCCGCGCAGG 344
 |||||
 Db 112 ProArgArgArg 115

RESULT 11

US-08-290-665A-191
 ; Sequence 191, Application US/08290665A
 ; Patent No. 582852

GENERAL INFORMATION:

APPLICANT: BUKH, J., MILLER, R.H. AND
 APPLICANT: PURCELL, R.H.
 TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED
 TITLE OF INVENTION: AMINO ACID SEQUENCES OF THE ENVELOPE 1 AND
 TITLE OF INVENTION: CORE GENES OF ISOLATES OF HEPATITIS C VIRUS
 TITLE OF INVENTION: AND THE USE OF REAGENTS DERIVED FROM THESE
 TITLE OF INVENTION: SEQUENCES IN DIAGNOSTIC METHODS AND VACCINES
 NUMBER OF SEQUENCES: 263

CORRESPONDENCE ADDRESS:

ADDRESSEE: MORGAN & FINNEGAN
 STREET: 345 PARK AVENUE
 CITY: NEW YORK
 STATE: NEW YORK
 COUNTRY: USA
 ZIP: 10154

COMPUTER READABLE FORM:

MEDIUM TYPE: FLOPPY DISK
 COMPUTER: IBM PC COMPATIBLE
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: WORDPERFECT 5.1
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/290,665A
 FILING DATE: 15-AUG-1994
 CLASSIFICATION: 435

ATTORNEY/AGENT INFORMATION:

NAME: RICHARD W. BORK
 REGISTRATION NUMBER: 36,459
 REFERENCE/DOCKET NUMBER: 2026-4116
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: (212) 758-4800
 TELEFAX: (212) 751-6849
 TELEX: 421792

INFORMATION FOR SEQ ID NO: 191:

SEQUENCE CHARACTERISTICS:
 LENGTH: 191 amino acids
 TYPE: amino acid
 STRANDEDNESS: unknown
 TOPOLOGY: unknown
 ORIGINAL SOURCE:
 ORGANISM: homosapiens
 INDIVIDUAL ISOLATE: Z4
 US-08-290-665A-191

Alignment Scores:

Pred. No.: 1.06e-32 Length: 191
 Score: 44.00 Matches: 44
 Percent Similarity: 100.00% Conservative: 0
 Best Local Similarity: 100.00% Mismatches: 0

Query Match: 38.26% Indels: 0
 DB: 2 Gaps: 0
 US-09-873-224A-147 (1-345) x US-08-290-665A-191 (1-191)

QY 213 GAGGCGAGGCTCTGGGCTCAGCCGGGTACCTTGGCCCTATATGGGATGAGGCTGC 272
 |||||
 Db 72 GluGlyArgSerTrpAlaGlnProGlyTyrProTrpProLeuTyrGlyAsnGluGlyCys 91
 |||||
 QY 273 GGGTGGCGAGGCTGCTCTGTCTCCCGCGGGCTCTCGCCGCTCGTGGGCCCCAAATGAC 332
 |||||
 Db 92 GlyTrpAlaGlyTrpLeuLeuSerProArgGlySerArgProSerTrpGlyProAsnAsp 111
 |||||
 QY 333 CCCCGCGCAGG 344
 |||||
 Db 112 ProArgArgArg 115

RESULT 12

US-08-290-665A-192
 ; Sequence 192, Application US/08290665A
 ; Patent No. 582852

GENERAL INFORMATION:

APPLICANT: BUKH, J., MILLER, R.H. AND
 APPLICANT: PURCELL, R.H.
 TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED
 TITLE OF INVENTION: AMINO ACID SEQUENCES OF THE ENVELOPE 1 AND
 TITLE OF INVENTION: CORE GENES OF ISOLATES OF HEPATITIS C VIRUS
 TITLE OF INVENTION: AND THE USE OF REAGENTS DERIVED FROM THESE
 TITLE OF INVENTION: SEQUENCES IN DIAGNOSTIC METHODS AND VACCINES
 NUMBER OF SEQUENCES: 263

CORRESPONDENCE ADDRESS:

ADDRESSEE: MORGAN & FINNEGAN
 STREET: 345 PARK AVENUE
 CITY: NEW YORK
 STATE: NEW YORK
 COUNTRY: USA
 ZIP: 10154

COMPUTER READABLE FORM:

MEDIUM TYPE: FLOPPY DISK
 COMPUTER: IBM PC COMPATIBLE
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: WORDPERFECT 5.1
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/290,665A
 FILING DATE: 15-AUG-1994
 CLASSIFICATION: 435

ATTORNEY/AGENT INFORMATION:

NAME: RICHARD W. BORK
 REGISTRATION NUMBER: 36,459
 REFERENCE/DOCKET NUMBER: 2026-4116
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: (212) 758-4800
 TELEFAX: (212) 751-6849
 TELEX: 421792

INFORMATION FOR SEQ ID NO: 192:

SEQUENCE CHARACTERISTICS:
 LENGTH: 191 amino acids
 TYPE: amino acid
 STRANDEDNESS: unknown
 TOPOLOGY: unknown
 ORIGINAL SOURCE:
 ORGANISM: homosapiens
 INDIVIDUAL ISOLATE: Z8
 US-08-290-665A-192

Alignment Scores:

Pred. No.: 1.06e-32 Length: 191
 Score: 44.00 Matches: 44
 Percent Similarity: 100.00% Conservative: 0
 Best Local Similarity: 100.00% Mismatches: 0
 Query Match: 38.26% Indels: 0
 DB: 2 Gaps: 0

US-09-873-224A-147 (1-345) x US-08-290-665A-192 (1-191)

Qy 213 GAGGCGAGTCTCGGCTCAGCCCGGTACCTTTGGCCCTATATGGAATGAGGGCTGC 272
 Db 72 GluGlyArgSerTrpAlaGlnProGlyTyrProTrpProLeuTyrGlyAsnGluGlyCys 91
 Qy 273 GGGTGGCAGGTCCTCTGCTCCCGCGGGCTCTGCGCGTCTGCGGGCCCAATGAC 332
 Db 92 GlyTrpAlaGlyTrpLeuSerProArgGlySerArgProSerTrpGlyProAsnAsp 111
 Qy 333 CCCCAGGCGAGG 344
 Db 112 ProArgArgArg 115

RESULT 13

US-08-290-665A-193
 ; Sequence 193, Application US/08290665A
 ; Patent No. 5882852
 ; GENERAL INFORMATION:
 ; APPLICANT: BUKH, J., MILLER, R. H. AND
 ; APPLICANT: PURCELL, R. H.
 ; TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED
 ; TITLE OF INVENTION: AMINO ACID SEQUENCES OF THE ENVELOPE 1 AND
 ; TITLE OF INVENTION: CORE GENES OF ISOLATES OF HEPATITIS C VIRUS
 ; TITLE OF INVENTION: AND THE USE OF REAGENTS DERIVED FROM THESE
 ; TITLE OF INVENTION: SEQUENCES IN DIAGNOSTIC METHODS AND VACCINES
 ; NUMBER OF SEQUENCES: 263
 ; CORRESPONDENCE ADDRESS:
 ; ADDRESSEE: MORGAN & FINNEGAN
 ; STREET: 345 PARK AVENUE
 ; CITY: NEW YORK
 ; STATE: NEW YORK
 ; COUNTRY: USA
 ; ZIP: 10154

COMPUTER READABLE FORM:
 MEDIUM TYPE: FLOPPY DISK
 COMPUTER: IBM PC COMPATIBLE
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: WORDPERFECT 5.1
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/290,665A
 FILING DATE: 15-AUG-1994
 CLASSIFICATION: 435
 ATTORNEY/AGENT INFORMATION:
 NAME: RICHARD W. BORK
 REGISTRATION NUMBER: 36,459
 REFERENCE/DOCKET NUMBER: 2026-4116
 TELEPHONE: (212) 758-4800
 TELEFAX: (212) 751-6849
 TELEX: 421792
 INFORMATION FOR SEQ ID NO: 193:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 191 amino acids
 TYPE: amino acid
 STRANDEDNESS: unknown
 TOPOLOGY: unknown
 ORGANISM: hom sapiens
 INDIVIDUAL ISOLATE: Z1
 US-08-290-665A-193

Alignment Scores:
 Pred. No.: 1.06e-32 Length: 191
 Score: 44.00 Matches: 44
 Percent Similarity: 100.00% Conservative: 0
 Best Local Similarity: 100.00% Mismatches: 0
 Query Match: 38.26% Indels: 0
 DB: 2 Gaps: 0

US-09-873-224A-147 (1-345) x US-08-290-665A-193 (1-191)

Qy 213 GAGGCGAGTCTCGGCTCAGCCCGGTACCTTTGGCCCTATATGGAATGAGGGCTGC 272

Db 72 GluGlyArgSerTrpAlaGlnProGlyTyrProTrpProLeuTyrGlyAsnGluGlyCys 91
 Qy 273 GGGTGGCAGGTCCTCTGCTCCCGCGGGCTCTGCGCGTCTGCGGGCCCAATGAC 332
 Db 92 GlyTrpAlaGlyTrpLeuSerProArgGlySerArgProSerTrpGlyProAsnAsp 111
 Qy 333 CCCCAGGCGAGG 344
 Db 112 ProArgArgArg 115

RESULT 14

US-08-290-665A-195
 ; Sequence 195, Application US/08290665A
 ; Patent No. 5882852
 ; GENERAL INFORMATION:
 ; APPLICANT: BUKH, J., MILLER, R. H. AND
 ; APPLICANT: PURCELL, R. H.
 ; TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED
 ; TITLE OF INVENTION: AMINO ACID SEQUENCES OF THE ENVELOPE 1 AND
 ; TITLE OF INVENTION: CORE GENES OF ISOLATES OF HEPATITIS C VIRUS
 ; TITLE OF INVENTION: AND THE USE OF REAGENTS DERIVED FROM THESE
 ; TITLE OF INVENTION: SEQUENCES IN DIAGNOSTIC METHODS AND VACCINES
 ; NUMBER OF SEQUENCES: 263
 ; CORRESPONDENCE ADDRESS:
 ; ADDRESSEE: MORGAN & FINNEGAN
 ; STREET: 345 PARK AVENUE
 ; CITY: NEW YORK
 ; STATE: NEW YORK
 ; COUNTRY: USA
 ; ZIP: 10154

COMPUTER READABLE FORM:
 MEDIUM TYPE: FLOPPY DISK
 COMPUTER: IBM PC COMPATIBLE
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: WORDPERFECT 5.1
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/290,665A
 FILING DATE: 15-AUG-1994
 CLASSIFICATION: 435
 ATTORNEY/AGENT INFORMATION:
 NAME: RICHARD W. BORK
 REGISTRATION NUMBER: 36,459
 REFERENCE/DOCKET NUMBER: 2026-4116
 TELEPHONE: (212) 758-4800
 TELEFAX: (212) 751-6849
 TELEX: 421792
 INFORMATION FOR SEQ ID NO: 195:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 191 amino acids
 TYPE: amino acid
 STRANDEDNESS: unknown
 TOPOLOGY: unknown
 ORGANISM: hom sapiens
 INDIVIDUAL ISOLATE: Z6
 US-08-290-665A-195

Alignment Scores:
 Pred. No.: 1.06e-32 Length: 191
 Score: 44.00 Matches: 44
 Percent Similarity: 100.00% Conservative: 0
 Best Local Similarity: 100.00% Mismatches: 0
 Query Match: 38.26% Indels: 0
 DB: 2 Gaps: 0

US-09-873-224A-147 (1-345) x US-08-290-665A-195 (1-191)

Qy 213 GAGGCGAGTCTCGGCTCAGCCCGGTACCTTTGGCCCTATATGGAATGAGGGCTGC 272

Db 72 GluGlyArgSerTrpAlaGlnProGlyTyrProTrpProLeuTyrGlyAsnGluGlyCys 91

QY 273 GGCTGGCGAGGTGGCTCTCTGTCGCCGCGGGCTCTCGCCCTCGTGGGCCCCAAATGAC 332
|||||
Db 92 GlyTrpAlaGlyTrpLeuSerProArgGlySerArgProSerTrpGlyProAsnAsp 111
|||||
QY 333 CCCCAGCGCAGG 344
|||||
Db 112 ProArgArgArg 115
|||||

RESULT 15
US-08-290-665A-196
; Sequence 196, Application US/08290665A
; Patent No. 5882852
; GENERAL INFORMATION:
; APPLICANT: BURK, J., MILLER, R.H. AND
; APPLICANT: PURCELL, R.H.
; TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED
; TITLE OF INVENTION: AMINO ACID SEQUENCES OF THE ENVELOPE 1 AND
; TITLE OF INVENTION: CORE GENES OF ISOLATES OF HEPATITIS C VIRUS
; TITLE OF INVENTION: AND THE USE OF REAGENTS DERIVED FROM THESE
; TITLE OF INVENTION: SEQUENCES IN DIAGNOSTIC METHODS AND VACCINES
; NUMBER OF SEQUENCES: 263
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: MORGAN & FINNEGAN
; STREET: 345 PARK AVENUE
; CITY: NEW YORK
; STATE: NEW YORK
; COUNTRY: USA
; ZIP: 10154

COMPUTER READABLE FORM:
; MEDIUM TYPE: FLOPPY DISK
; COMPUTER: IBM PC COMPATIBLE
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: WORDPERFECT 5.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/290,665A
; FILING DATE: 15-AUG-1994
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: RICHARD W. BORK
; REGISTRATION NUMBER: 36,459
; REFERENCE/DOCKET NUMBER: 2026-4116
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (212) 758-4800
; TELEFAX: (212) 751-6849
; TELEX: 421792
; INFORMATION FOR SEQ ID NO: 196:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 191 amino acids
; TYPE: amino acid
; STRANDEDNESS: unknown
; TOPOLOGY: unknown
; ORIGINAL SOURCE:
; ORGANISM: Homosapiens
; INDIVIDUAL ISOLATE: Z7
; US-08-290-665A-196

Alignment Scores:
Pred. No.: 1 06e-32 Length: 191
Score: 44.00 Matches: 44
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 38.26% Indels: 0
DB: 2 Gaps: 0

US-09-873-224A-147 (1-345) x US-08-290-665A-196 (1-191)

QY 213 GAGCGAGGTCTGGCTACCCGGGTACCTTGCCCTATATCGGAATGAGGCTGC 272
|||||
Db 72 GluGlyArgSerTrpAlaGlnProGlyTyrProTrpProLeuTyrGlyAsnGluGlyCys 91
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QY 273 GGCTGGCGAGGTGGCTCTCTGTCGCCGCGGGCTCTCGCCCTCGTGGGCCCCAAATGAC 332
|||||
Db 92 GlyTrpAlaGlyTrpLeuSerProArgGlySerArgProSerTrpGlyProAsnAsp 111
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QY 333 CCCCAGCGCAGG 344
|||||
Db 112 ProArgArgArg 115
|||||

Search completed: April 15, 2005, 00:42:32
Job time : 21.5 secs

GenCore version 5.1.6
Copyright (c) 1993 - 2005 CompuGen Ltd.

OM nucleic - protein search, using frame_plus_n2p model

Run on: April 15, 2005, 00:39:15 ; Search time 47.5 Seconds
(without alignments)
4828.122 Million cell updates/sec

Title: US-09-873-224A-147

Perfect score: 115

Sequence: 1 atggacacactcttaacc.....aaatgaccccggcagga 345

Scoring table:

Xgapop	60.0	Xgapext	60.0
Ygapop	60.0	Ygapext	60.0
Fgapop	6.0	Fgapext	7.0
Delop	6.0	Delext	7.0

Searched: 1421835 seqs, 332370683 residues

Word size: 1

Total number of hits satisfying chosen parameters: 2723274

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Listing first 45 summaries

Command line parameters:
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-DB=PublishedApplicationsAA -OFMT=fastan -SUFFIX=olig.rapb -MINMATCH=0.1
-LOOPCL=0 -LOOPEXT=0 -UNITS=bits -START=1 -END=-1 -MATRIX=oligo
-TRANS=human40.cdi -LIST=45 -DOCALIGN=200 -THR_SCORE=quality -THR_MIN=1
-ALIGN=15 -MODE=LOCAL -OUTFMT=ptc -NORM=ext -HEAPSIZE=500 -MINLEN=0
-MAXLEN=2000000000 -USER=US9873224 @cgn 1 130 @runat_14042005_112007_16587
-NCPU=6 -ICPU=3 -NO_WAP -LARGEQUERY -NEG_SCORES=0 -WAIT -DSPBLOCK=100
-LONGLOG -DRV_TIMEOUT=120 -WARN_TIMEOUT=30 -THREADS=1 -XGAPOP=60 -XGAPEXT=60
-FGAPOP=6 -FGAPEXT=7 -YGAPOP=60 -YGAPEXT=60 -DELOP=6 -DELEXT=7

Database :
1: /cgn2_6/ptodata/1/pubpaa/US07_PUBCOMB.pep.*
2: /cgn2_6/ptodata/1/pubpaa/PCT_NEW_PUB.pep.*
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11: /cgn2_6/ptodata/1/pubpaa/US09C_PUBCOMB.pep.*
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19: /cgn2_6/ptodata/1/pubpaa/US60_NEW_PUB.pep.*
20: /cgn2_6/ptodata/1/pubpaa/US60_PUBCOMB.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result Query

No.	Score	Match	Length	DB	ID	Description
1	115	100.0	115	10	US-09-873-224-148	Sequence 148, App
2	98	85.2	115	9	US-09-851-138-50	Sequence 50, Appl
3	98	85.2	115	10	US-09-899-046-148	Sequence 148, App
4	98	85.2	115	10	US-09-878-281-148	Sequence 148, App
5	83	72.2	100	15	US-10-651-165-233	Sequence 233, App
6	44	38.3	124	14	US-10-396-964-15	Sequence 15, Appl
7	44	38.3	166	10	US-09-899-046-164	Sequence 164, App
8	44	38.3	166	10	US-09-878-281-164	Sequence 164, App
9	44	38.3	166	10	US-09-873-224-164	Sequence 9, Appli
10	44	38.3	189	15	US-10-450-649-9	Sequence 217, App
11	44	38.3	319	15	US-10-651-165-217	Sequence 219, App
12	44	38.3	319	15	US-10-651-165-219	Sequence 13, Appl
13	38	33.0	130	14	US-10-368-569-19	Sequence 5, Appli
14	38	33.0	161	14	US-10-230-381-5	Sequence 53, Appl
15	38	33.0	191	14	US-10-230-381-53	Sequence 54, Appl
16	38	33.0	191	14	US-10-230-381-54	Sequence 55, Appl
17	38	33.0	191	14	US-10-230-381-55	Sequence 50, Appl
18	38	33.0	193	14	US-10-230-381-50	Sequence 51, Appl
19	38	33.0	193	14	US-10-230-381-51	Sequence 52, Appl
20	38	33.0	193	14	US-10-230-381-52	Sequence 3, Appli
21	38	33.0	209	14	US-10-230-381-3	Sequence 7, Appli
22	38	33.0	209	14	US-10-230-381-7	Sequence 11, Appl
23	38	33.0	373	14	US-10-230-381-11	Sequence 13, Appl
24	38	33.0	373	14	US-10-230-381-13	Sequence 15, Appl
25	38	33.0	373	14	US-10-230-381-15	Sequence 194, App
26	36	31.3	166	10	US-09-899-046-194	Sequence 194, App
27	36	31.3	166	10	US-09-878-281-194	Sequence 194, App
28	36	31.3	166	10	US-09-873-224-194	Sequence 78, Appli
29	34	29.6	113	9	US-09-921-397-78	Sequence 1, Appli
30	34	29.6	122	14	US-10-098-8578-1	Sequence 166, App
31	34	29.6	126	10	US-09-899-046-166	Sequence 166, App
32	34	29.6	126	10	US-09-878-281-166	Sequence 166, App
33	34	29.6	126	10	US-09-873-224-166	Sequence 14, Appl
34	34	29.6	151	14	US-10-392-129-14	Sequence 2, Appli
35	34	29.6	182	9	US-09-929-955-2	Sequence 2, Appli
36	34	29.6	182	13	US-10-104-966-2	Sequence 2, Appli
37	34	29.6	182	15	US-10-719-619-2	Sequence 1, Appli
38	34	29.6	190	14	US-10-268-562-1	Sequence 7, Appli
39	34	29.6	190	15	US-10-450-649-7	Sequence 59, Appl
40	34	29.6	235	15	US-10-365-620-58	Sequence 60, Appl
41	34	29.6	235	17	US-10-912-969-60	Sequence 54, Appl
42	34	29.6	249	15	US-10-365-620-54	Sequence 56, Appl
43	34	29.6	249	17	US-10-912-969-56	Sequence 196, App
44	34	29.6	258	15	US-10-651-165-196	Sequence 218, App
45	34	29.6	319	15	US-10-651-165-218	

ALIGNMENTS

RESULT 1
US-873-224-148
; Sequence 148, Application US/09873224
; Publication No. US20030064360A1
; GENERAL INFORMATION:
; APPLICANT: <Unknown>
; TITLE OF INVENTION: New sequences of hepatitis C virus
; genotypes for diagnosis, prophylaxis and therapy.
; NUMBER OF SEQUENCES: 270
; CORRESPONDENCE ADDRESS:
; STREET: Industriepark Zwijnaarde 7, box 4
; CITY: Ghent
; COUNTRY: Belgium
; ZIP: B-9052
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25 (EPO)
; CURRENT APPLICATION NUMBER: US/09/873,224
; FILING DATE: 05-Jun-2001


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; APPLICATION NUMBER: 08/362,455
; FILING DATE:
; INFORMATION FOR SEQ ID NO: 148:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 115 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-09-899-046-148

Alignment Scores:
Pred. No.:          Length:      115
Score:              Matches:     98
Percent Similarity: 100.00%
Best Local Similarity: 100.00%
Query Match:       Indels:      0
DB:                Gaps:        0

US-09-873-224A-147 (1-345) x US-09-899-046-148 (1-115)
QY   51 CGGCCACAGGACGTAAAGTTCCCGAGGGCGGTGCAGATCGTGTGGTAGTTACGTGCTA 110
Db   18 ArgProGlnAspVallyysPheProGlyGlyGlnileValGlyValTyValleu 37
QY   111 CCAGCAGGGCCCCCAGTCGGTGTCAGTGCAGTCGCAAGACTTCCGAGCGGTGCGCAA 170
Db   38 ProArgArgGlyProGlnLeuGlyValArgAlaValArgLysThrSerGluArgSerGln 57
QY   171 CCTCGCAGTAGGCCCACAACCATTCCCGAGGGCGCGCAACCGAGGCGAGGTCCTGGGCT 230
Db   58 ProArgSerArgArgGlnProIleProArgAlaValArgThrGluGlyArgSerTrpAla 77
QY   231 CAGCCCGGTCACCTTGGCCCTATATGGGAATGAGGCTGCGGGTGGCGCAGGTCGCTC 290
Db   78 GlnProGlyTyProTrpProLeuTyGlyAsnGluGlyCysGlyTrpAlaGlyTrpLeu 97
QY   291 CTGTCCCGCGCGCTCTCGCCCGTCTCGTGGGGCCCAAAATGACCCCGCGCAGG 344
Db   98 LeuSerProArgGlySerArgProSerTrpGlyProAsnAspProArgArg 115

RESULT 4
US-09-878-281-148
; Sequence 148, Application US/09878281
; Publication No. US20030032005A1
; GENERAL INFORMATION:
; APPLICANT:
; TITLE OF INVENTION: New sequences of hepatitis C virus
; TITLE OF INVENTION: Genotypes for diagnosis, prophylaxis and therapy.
; NUMBER OF SEQUENCES: 270
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.25 (BPO)
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/878,281
; FILING DATE:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/362,455
; INFORMATION FOR SEQ ID NO: 148:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 115 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-09-878-281-148

Alignment Scores:
Pred. No.:          Length:      115
Score:              Matches:     98
Percent Similarity: 100.00%
Best Local Similarity: 100.00%
Query Match:       Indels:      0
DB:                Gaps:        0

US-09-873-224A-147 (1-345) x US-09-899-046-148 (1-115)
QY   51 CGGCCACAGGACGTAAAGTTCCCGAGGGCGGTGCAGATCGTGTGGTAGTTACGTGCTA 110
Db   18 ArgProGlnAspVallyysPheProGlyGlyGlnileValGlyValTyValleu 37
QY   111 CCAGCAGGGCCCCCAGTCGGTGTCAGTGCAGTCGCAAGACTTCCGAGCGGTGCGCAA 170
Db   38 ProArgArgGlyProGlnLeuGlyValArgAlaValArgLysThrSerGluArgSerGln 57
QY   171 CCTCGCAGTAGGCCCACAACCATTCCCGAGGGCGCGCAACCGAGGCGAGGTCCTGGGCT 230
Db   58 ProArgSerArgArgGlnProIleProArgAlaValArgThrGluGlyArgSerTrpAla 77
QY   231 CAGCCCGGTCACCTTGGCCCTATATGGGAATGAGGCTGCGGGTGGCGCAGGTCGCTC 290
Db   78 GlnProGlyTyProTrpProLeuTyGlyAsnGluGlyCysGlyTrpAlaGlyTrpLeu 97
QY   291 CTGTCCCGCGCGCTCTCGCCCGTCTCGTGGGGCCCAAAATGACCCCGCGCAGG 344
Db   98 LeuSerProArgGlySerArgProSerTrpGlyProAsnAspProArgArg 115

RESULT 5
US-10-651-165-233
; Sequence 233, Application US/10651165
; Publication No. US2004004787A1
; GENERAL INFORMATION:
; APPLICANT: LEROUX-ROELS, Geert
; APPLICANT: DELEYS, Robert
; APPLICANT: MAERTENS, Geert
; TITLE OF INVENTION: IMMUNODOMINANT HUMAN T CELL EPITOPES OF HEPATITIS C
; TITLE OF INVENTION: VIRUS
; FILE REFERENCE: 2551-94
; CURRENT APPLICATION NUMBER: US/10/651,165
; CURRENT FILING DATE: 2003-09-02
; PRIOR APPLICATION NUMBER: US/08/974,690C
; PRIOR FILING DATE: 1997-11-19
; PRIOR APPLICATION NUMBER: PCT/EP94/03555
; PRIOR FILING DATE: 1994-10-28
; PRIOR APPLICATION NUMBER: EP 93402718.6
; PRIOR FILING DATE: 1993-11-04
; NUMBER OF SEQ ID NOS: 286
; SOFTWARE: Patent In version 3.1
; SEQ ID NO 233
; LENGTH: 100
; TYPE: Prt
; ORGANISM: hepatitis C virus
; FEATURE:
; NAME/KEY: MISC FEATURE
; LOCATION: (17)..(17)
; OTHER INFORMATION: Xaa is any amino acid
US-10-651-165-233

Alignment Scores:
Pred. No.:          Length:      100
Score:              Matches:     83
Percent Similarity: 100.00%
Best Local Similarity: 100.00%
Query Match:       Indels:      0
DB:                Gaps:        0

US-09-873-224A-147 (1-345) x US-10-651-165-233 (1-100)
QY   51 CGGCCACAGGACGTAAAGTTCCCGAGGGCGGTGCAGATCGTGTGGTAGTTACGTGCTA 110
Db   18 ArgProGlnAspVallyysPheProGlyGlyGlnileValGlyValTyValleu 37
QY   111 CCAGCAGGGCCCCCAGTCGGTGTCAGTGCAGTCGCAAGACTTCCGAGCGGTGCGCAA 170
Db   38 ProArgArgGlyProGlnLeuGlyValArgAlaValArgLysThrSerGluArgSerGln 57

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[illegible]

171	CTCTCGAGTAGCGCCAA	CCATCCCAAGGCGCGCCAA	CCGAGGCGAGTCTCTGGCT	230	
58	ProArgSerArg	ArgGlnProIle	ProArgAlaArgArgThr	GluGlyArgSerTrpAla	77
231	CAGCCCGGGTACCTT	TGGCCCTTATATGGGAAT	CAGGGCTTCGGGTGGG	CAGGGTGGCTC	290
78	GlnProGlyTyrPro	TrpProLeuTyrGly	AsnGluGlyCys	GlyTrpAlaGlyTrpLeu	97
291	CTGTCCCCG	299			
98	LeuSerPro	100			

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US-09-873-224A-147 (1-345) x US-10-396-964-15 (1-124)	
Qy	213 GAGGGCAGGTCTCGGCTCAGCCGGGTACCTTGGCCCTATATGGAATCAGGGTCG 272
Db	68 GluclYargserTrpAlaGlnProGluYrProIrrProLeuYrGlyAsnGluGlyCys 87
Qy	273 GGGTGGCGAGGGTGGCTCTGTCCCCGGCGGGCTCTGCCCGTGGTGGGGCCCAATGAC 332
Db	88 GlyTrpAlaGlyTrpLeuLeuSerProArgGlySerArgProSerTrpGlyProAsnAsp 107
Qy	333 CCCCGCGCAGG 344
Db	108 ProArgArgArg 111

```

RESULT 7
US-09-899-046-164
; Sequence 164, Application US/09899046
; Publication No. US20030008274A1
; GENERAL INFORMATION:
; APPLICANT:
; TITLE OF INVENTION: New sequences of hepatitis C virus
; TITLE OF INVENTION: genotypes for diagnosis, prophylaxis and therapy.
; NUMBER OF SEQUENCES: 270
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25 (EPO)
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/899,046
; FILING DATE:
; PRIORITY APPLICATION DATA:
; APPLICATION NUMBER: 08/362,455
; FILING DATE:
; INFORMATION FOR SEQ ID NO: 164:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 166 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-09-899-046-164

Alignment Scores:
Pred. No.: 4,636-32 Length: 166
Score: 44.00 Matches: 44
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 38.26% Indels: 0
DB: 10 Gaps: 0

US-09-873-224A-147 (1-345) x US-09-899-046-164 (1-166)
QY 213 GAGGCGAGGTCTGGGCTCAGCCCGGTACCCCTTGGCCCTATATGGGAATGAGGGCTGC
Db 72 GluGlyArgSerTrpAlaGlnProGlyTyProTrpProLeuTyGlyAsnGluGlyCys
QY 273 GGGTGGGCGAGGTGGCTCTCTCCCGCGGGCTCTCGCCGCTGGGGGCCCAATGAC
Db 92 GlyTrpAlaGlyTrpLeuLeuSerProArgGlySerArgProSerTrpGlyProAsnAsp
QY 333 CCCCGGCGCAGG 344
Db 112 ProArgArgArg 115

RESULT 8
US-09-878-281-164
; Sequence 164, Application US/09878281
; Publication No. US20030032005A1
; GENERAL INFORMATION:
; APPLICANT:
; TITLE OF INVENTION: New sequences of hepatitis C virus
; TITLE OF INVENTION: genotypes for diagnosis, prophylaxis and therapy.

```

RESULT 8
US-09-878-281-164
; Sequence 164, Application US/09878281
; Publication No. US20030032005A1
; GENERAL INFORMATION:
; APPLICANT:
; TITLE OF INVENTION: New sequences of hepatitis C virus
; TITLE OF INVENTION: genotypes for diagnosis, prophylaxis and therapy.

; INFORMATION FOR SEQ ID NO: 164:	
; SEQUENCE CHARACTERISTICS:	
; LENGTH: 166 amino acids	
; TYPE: amino acid	
; TOPOLOGY: linear	
; MOLECULE TYPE: protein	
; SEQUENCE DESCRIPTION: SEQ ID NO: 164:	
US-09-873-224-164	
Alignment Scores:	
Pred. No.:	4,63e-32
Score:	44.00
Percent Similarity:	100.00%
Best Local Similarity:	100.00%
Query Match:	38.26%
DB:	10
US-09-873-224A-147 (1-345) x US-09-873-224-164 (1-166)	
Qy	213 GAGGGCAGGTCCTGGGCTCAGCCGGGTACCTTTGGCCCTATATGGAATGAGGGCTGC 272
Db	72 GluGlyArgSerTrpAlaGlnProGlyTyrProTrpProLeuTyrGlyAsnGluGlyCys 91
Qy	273 GGTGGGCAGGTTGGCTCTCTGTCCTCCCGGGCGGCTCTCCCGCTCGTGGGGCCCAATGAC 332
Db	92 GlyTrpAlaGlyTrpLeuLeuSerProArgGlySerArgProSerTrpGlyProAsnAsp 111
Qy	333 CCCCGGCGCAGG 344
Db	112 ProArgArgArg 115
RESULT 10	
US-10-450-649-9	
; Sequence 9, Application US/10450649	
; Publication No. US20040052818A1	
; GENERAL INFORMATION:	
; APPLICANT: Heinz, Franz X.	
; APPLICANT: Mandl, Christian	
; TITLE OF INVENTION: ATTENUATED LIVE VACCINE	
; FILE REFERENCE: U 014666-0	
; CURRENT APPLICATION NUMBER: US/10/450,649	
; CURRENT FILING DATE: 2003-06-16	
; PRIOR APPLICATION NUMBER: PCT/AT02/00046	
; PRIOR FILING DATE: 2002-02-11	
; PRIOR APPLICATION NUMBER: A 272/2001 AT	
; PRIOR FILING DATE: 2001-02-21	
; NUMBER OF SEQ ID NOS: 9	
; SOFTWARE: PatentIn version 3.1	
; SEQ ID NO 9	
; LENGTH: 189	
; TYPE: PRT	
; ORGANISM: Hepatitis C Virus 3	
US-10-450-649-9	
Alignment Scores:	
Pred. No.:	4,53e-32
Score:	44.00
Percent Similarity:	100.00%
Best Local Similarity:	100.00%
Query Match:	38.26%
DB:	15
US-09-873-224A-147 (1-345) x US-10-450-649-9 (1-189)	
Qy	213 GAGGGCAGGTCCTGGGCTCAGCCGGGTACCTTTGGCCCTATATGGAATGAGGGCTGC 272
Db	71 GluGlyArgSerTrpAlaGlnProGlyTyrProTrpProLeuTyrGlyAsnGluGlyCys 90
Qy	273 GGTGGGCAGGTTGGCTCTCTGTCCTCCCGGGCGGCTCTCCCGCTCGTGGGGCCCAATGAC 332
Db	91 GlyTrpAlaGlyTrpLeuLeuSerProArgGlySerArgProSerTrpGlyProAsnAsp 110
Qy	333 CCCCGGCGCAGG 344

```
Db      111 ProArgArg 114
|||||
RESULT 11
US-10-651-165-217
; Sequence 217, Application US/10651165
; Publication No. US2004004787A1
; GENERAL INFORMATION:
; APPLICANT: LEROUX-ROELS, Geert
; APPLICANT: DELEYS, Robert
; APPLICANT: MAERTENS, Geert
; TITLE OF INVENTION: IMMUNODOMINANT HUMAN T CELL EPITOPES OF HEPATITIS C
; TITLE OF INVENTION: VIRUS
; FILE REFERENCE: 2551-94
; CURRENT APPLICATION NUMBER: US/10/651,165
; CURRENT FILING DATE: 2003-09-02
; PRIOR APPLICATION NUMBER: US/08/974,690C
; PRIOR FILING DATE: 1997-11-19
; PRIOR APPLICATION NUMBER: PCT/EP94/03555
; PRIOR FILING DATE: 1994-10-28
; PRIOR APPLICATION NUMBER: EP 93402718.6
; PRIOR FILING DATE: 1993-11-04
; NUMBER OF SEQ ID NOS: 286
; SOFTWARE: Patent in version 3.1
; SEQ ID NO 217
; LENGTH: 319
; TYPE: PRT
; ORGANISM: hepatitis C virus
US-10-651-165-217

Alignment Scores:
Pred. No.:      4,13e-32      Length:      319
Score:          44.00        Matches:      44
Percent Similarity: 100.00%   Conservat:    0
Best Local Similarity: 100.00% Mismatches:    0
Query Match:    38.26%      Indels:      0
DB:             15          Gaps:       0

US-09-873-224A-147 (1-345) x US-10-651-165-217 (1-319)
QY      213 GAGGCGAGGTCCTGGGCTAGCCCGGTACCTTGGCCCTATATGGGAATGAGGCTGC 272
      |||||
Db      72 GluGlyArgSerTrpAlaGlnProGlyTyProTrpProLeuTyGlyAsnGluGlyCys 91
      |||||
QY      273 GGGTGGCGAGGTCCTGCTCCCGCGGGCTCTCGCCGCTCGTGGGGCCCAATGAC 332
      |||||
Db      92 GlyTrpAlaGlyTrpLeuSerProArgGlySerArgProSerTrpGlyProAsnAsp 111
      |||||
QY      333 CCCCAGCGCAGG 344
      |||||
Db      112 ProArgArg 115
      |||||

RESULT 12
US-10-651-165-219
; Sequence 219, Application US/10651165
; Publication No. US2004004787A1
; GENERAL INFORMATION:
; APPLICANT: LEROUX-ROELS, Geert
; APPLICANT: DELEYS, Robert
; APPLICANT: MAERTENS, Geert
; TITLE OF INVENTION: IMMUNODOMINANT HUMAN T CELL EPITOPES OF HEPATITIS C
; TITLE OF INVENTION: VIRUS
; FILE REFERENCE: 2551-94
; CURRENT APPLICATION NUMBER: US/10/651,165
; CURRENT FILING DATE: 2003-09-02
; PRIOR APPLICATION NUMBER: US/08/974,690C
; PRIOR FILING DATE: 1997-11-19
; PRIOR APPLICATION NUMBER: PCT/EP94/03555
; PRIOR FILING DATE: 1994-10-28
; PRIOR APPLICATION NUMBER: EP 93402718.6
; PRIOR FILING DATE: 1993-11-04
; NUMBER OF SEQ ID NOS: 286
; SOFTWARE: Patent in version 3.1
; SEQ ID NO 217
; LENGTH: 319
; TYPE: PRT
; ORGANISM: hepatitis C virus
US-10-651-165-219

Alignment Scores:
Pred. No.:      4,13e-32      Length:      319
Score:          44.00        Matches:      44
Percent Similarity: 100.00%   Conservat:    0
Best Local Similarity: 100.00% Mismatches:    0
Query Match:    38.26%      Indels:      0
DB:             15          Gaps:       0

US-09-873-224A-147 (1-345) x US-10-651-165-217 (1-319)
QY      213 GAGGCGAGGTCCTGGGCTAGCCCGGTACCTTGGCCCTATATGGGAATGAGGCTGC 272
      |||||
Db      72 GluGlyArgSerTrpAlaGlnProGlyTyProTrpProLeuTyGlyAsnGluGlyCys 91
      |||||
QY      273 GGGTGGCGAGGTCCTGCTCCCGCGGGCTCTCGCCGCTCGTGGGGCCCAATGAC 332
      |||||
Db      92 GlyTrpAlaGlyTrpLeuSerProArgGlySerArgProSerTrpGlyProAsnAsp 111
      |||||
QY      333 CCCCAGCGCAGG 344
      |||||
Db      112 ProArgArg 115
      |||||

RESULT 13
US-10-268-569-19
; Sequence 19, Application US/10268569
; Publication No. US20030152965A1
; GENERAL INFORMATION:
; APPLICANT: Ortho-Clinical Diagnostics, Inc.
; TITLE OF INVENTION: HCV Core Protein Sequences
; FILE REFERENCE: CDS-0288
; CURRENT APPLICATION NUMBER: US/10/268,569
; CURRENT FILING DATE: 2002-10-10
; PRIOR APPLICATION NUMBER: 60/347,303
; PRIOR FILING DATE: 2001-11-11
; NUMBER OF SEQ ID NOS: 19
; SOFTWARE: Patent in version 3.1
; SEQ ID NO 19
; LENGTH: 130
; TYPE: PRT
; ORGANISM: Hepatitis C virus
US-10-268-569-19

Alignment Scores:
Pred. No.:      1,85e-26      Length:      130
Score:          38.00        Matches:      38
Percent Similarity: 100.00%   Conservat:    0
Best Local Similarity: 100.00% Mismatches:    0
Query Match:    33.04%      Indels:      0
DB:             14          Gaps:       0

US-09-873-224A-147 (1-345) x US-10-268-569-19 (1-130)
QY      213 GAGGCGAGGTCCTGGGCTAGCCCGGTACCTTGGCCCTATATGGGAATGAGGCTGC 272
      |||||
Db      72 GluGlyArgSerTrpAlaGlnProGlyTyProTrpProLeuTyGlyAsnGluGlyCys 91
      |||||
QY      273 GGGTGGCGAGGTCCTGCTCCCGCGGGCTCTCGCCGCTCGTGGGGCCCA 326
      |||||
Db      92 GlyTrpAlaGlyTrpLeuSerProArgGlySerArgProSerTrpGlyPro 109
      |||||

RESULT 14
US-10-230-381-5
; Sequence 5, Application US/10230381
; Publication No. US20030152591A1
; GENERAL INFORMATION:
; APPLICANT: Innogenetics N.V.
; TITLE OF INVENTION: New hepatitis C virus genotype 13, and its use as prophylactic,
```

```
; SEQ ID NO 219
; LENGTH: 319
; TYPE: PRT
; ORGANISM: hepatitis C virus
US-10-651-165-219

Alignment Scores:
Pred. No.:      4,13e-32      Length:      319
Score:          44.00        Matches:      44
Percent Similarity: 100.00%   Conservat:    0
Best Local Similarity: 100.00% Mismatches:    0
Query Match:    38.26%      Indels:      0
DB:             15          Gaps:       0

US-09-873-224A-147 (1-345) x US-10-651-165-219 (1-319)
QY      213 GAGGCGAGGTCCTGGGCTAGCCCGGTACCTTGGCCCTATATGGGAATGAGGCTGC 272
      |||||
Db      72 GluGlyArgSerTrpAlaGlnProGlyTyProTrpProLeuTyGlyAsnGluGlyCys 91
      |||||
QY      273 GGGTGGCGAGGTCCTGCTCCCGCGGGCTCTCGCCGCTCGTGGGGCCCAATGAC 332
      |||||
Db      92 GlyTrpAlaGlyTrpLeuSerProArgGlySerArgProSerTrpGlyProAsnAsp 111
      |||||
QY      333 CCCCAGCGCAGG 344
      |||||
Db      112 ProArgArg 115
      |||||

RESULT 13
US-10-268-569-19
; Sequence 19, Application US/10268569
; Publication No. US20030152965A1
; GENERAL INFORMATION:
; APPLICANT: Ortho-Clinical Diagnostics, Inc.
; TITLE OF INVENTION: HCV Core Protein Sequences
; FILE REFERENCE: CDS-0288
; CURRENT APPLICATION NUMBER: US/10/268,569
; CURRENT FILING DATE: 2002-10-10
; PRIOR APPLICATION NUMBER: 60/347,303
; PRIOR FILING DATE: 2001-11-11
; NUMBER OF SEQ ID NOS: 19
; SOFTWARE: Patent in version 3.1
; SEQ ID NO 19
; LENGTH: 130
; TYPE: PRT
; ORGANISM: Hepatitis C virus
US-10-268-569-19

Alignment Scores:
Pred. No.:      1,85e-26      Length:      130
Score:          38.00        Matches:      38
Percent Similarity: 100.00%   Conservat:    0
Best Local Similarity: 100.00% Mismatches:    0
Query Match:    33.04%      Indels:      0
DB:             14          Gaps:       0

US-09-873-224A-147 (1-345) x US-10-268-569-19 (1-130)
QY      213 GAGGCGAGGTCCTGGGCTAGCCCGGTACCTTGGCCCTATATGGGAATGAGGCTGC 272
      |||||
Db      72 GluGlyArgSerTrpAlaGlnProGlyTyProTrpProLeuTyGlyAsnGluGlyCys 91
      |||||
QY      273 GGGTGGCGAGGTCCTGCTCCCGCGGGCTCTCGCCGCTCGTGGGGCCCA 326
      |||||
Db      92 GlyTrpAlaGlyTrpLeuSerProArgGlySerArgProSerTrpGlyPro 109
      |||||

RESULT 14
US-10-230-381-5
; Sequence 5, Application US/10230381
; Publication No. US20030152591A1
; GENERAL INFORMATION:
; APPLICANT: Innogenetics N.V.
; TITLE OF INVENTION: New hepatitis C virus genotype 13, and its use as prophylactic,
```

; TITLE OF INVENTION: therapeutic and diagnostic agents
; FILE REFERENCE: INNX-124-EP
; CURRENT APPLICATION NUMBER: US/10/230,381
; CURRENT FILING DATE: 2002-08-29
; NUMBER OF SEQ ID NOS: 63
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 5
; LENGTH: 161
; TYPE: PRT
; ORGANISM: Hepatitis C virus
US-10-230-381-5

Alignment Scores:
Pred. No.: 1.78e-26 Length: 161
Score: 38.00 Matches: 38
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 33.04% Indels: 0
DB: 14 Gaps: 0

US-09-873-224A-147 (1-345) x US-10-230-381-5 (1-161)

QY 231 CAGCCCGGTACCTTGCCCTATATGGGAATGAGGCTGGGGTGGCAGGTGGCTC 290
|||||
Db 78 GlnProGlyTyrProTrpProLeuTyrGlyAsnGluGlyCysGlyTrpAlaGlyTrpLeu 97
QY 291 CTGTCCCGCGGGCTCTCGCCCGTCGTGGGGCCCAATGACCCCGCGCGCAGG 344
|||||
Db 98 LeuSerProArgGlySerArgProSerTrpGlyProAsnAspProArgArg 115

RESULT 15

US-10-230-381-53
; Sequence 53, Application US/10230381
; Publication No. US20030152591A1
; GENERAL INFORMATION:
; APPLICANT: Innogenetics N.V.
; TITLE OF INVENTION: New hepatitis C virus genotype 13, and its use as prophylactic,
; FILE REFERENCE: INNX-124-EP
; CURRENT APPLICATION NUMBER: US/10/230,381
; CURRENT FILING DATE: 2002-08-29
; NUMBER OF SEQ ID NOS: 63
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 53
; LENGTH: 191
; TYPE: PRT
; ORGANISM: hepatitis C virus
US-10-230-381-53

Alignment Scores:
Pred. No.: 1.73e-26 Length: 191
Score: 38.00 Matches: 38
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 33.04% Indels: 0
DB: 14 Gaps: 0

US-09-873-224A-147 (1-345) x US-10-230-381-53 (1-191)

QY 231 CAGCCCGGTACCTTGCCCTATATGGGAATGAGGCTGGGGTGGCAGGTGGCTC 290
|||||
Db 78 GlnProGlyTyrProTrpProLeuTyrGlyAsnGluGlyCysGlyTrpAlaGlyTrpLeu 97
QY 291 CTGTCCCGCGGGCTCTCGCCCGTCGTGGGGCCCAATGACCCCGCGCGCAGG 344
|||||
Db 98 LeuSerProArgGlySerArgProSerTrpGlyProAsnAspProArgArg 115

Search completed: April 15, 2005, 00:51:48
Job time : 48.5 secs

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Sequence 49, Application US/08836075A
Patent No. 6180768
GENERAL INFORMATION:
APPLICANT: MAERTENS, GEERT
APPLICANT: STUYVER, LIEVEN
TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES
TITLE OF INVENTION: AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC
TITLE OF INVENTION: AGENTS
NUMBER OF SEQUENCES: 207
CORRESPONDENCE ADDRESS:
ADDRESSEE: ARNOLD, WHITE & DURKEE
STREET: P.O. BOX 4433
CITY: HOUSTON
STATE: TEXAS
COUNTRY: USA
ZIP: 77210-4433
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Microsoft Word 6.0 / ASCII text output
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/836,075A
FILING DATE: 21 Apr 1997
PRIOR APPLICATION DATA:
APPLICATION NUMBER: PCT/EP95/04155
FILING DATE: 23 Oct 1995
PRIOR APPLICATION DATA:
APPLICATION NUMBER: EP 94870166.9
FILING DATE: 21 Oct 1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: EP 95870076.7
FILING DATE: 28 Jun 1995
ATTORNEY/AGENT INFORMATION:
NAME: KAMMERER, PATRICIA A.
REGISTRATION NUMBER: 29,775
REFERENCE/DOCKET NUMBER: INNS:004
INFORMATION FOR SEQ ID NO: 49:
SEQUENCE CHARACTERISTICS:
LENGTH: 309 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA
HYPOTHETICAL: NO
ANTI-SENSE: NO
US-08-836-075A-49

Query Match 89.6%; Score 309; DB 3; Length 309;
Best Local Similarity 100.0%; Pred. No. 2,3e-147;
Matches 309; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ATGAGCACACTTCTTAAACACAAAGAAACCAAAAGAAACCAACCAACCCCGGCCACAGG 60
DB 1 ATGAGCACACTTCTTAAACACAAAGAAACCAAAAGAAACCAACCAACCCCGGCCACAGG 60
QY 61 ACCTTAAGTTCACAGCGCGGTTCAGATCGTTGGTGGAGTTTACGTTACCAACGCGAGG 120
DB 61 ACCTTAAGTTCACAGCGCGGTTCAGATCGTTGGTGGAGTTTACGTTACCAACGCGAGG 120
QY 121 GCCCCAGTTGGTGTGCGTGCAGTCGCAAGACTTCCGAGCGGTTCGCAACCTCGCAGTA 180
DB 121 GCCCCAGTTGGTGTGCGTGCAGTCGCAAGACTTCCGAGCGGTTCGCAACCTCGCAGTA 180
QY 181 GCGCCCAACCCATCCCAAGCGCGCGCGCAACCGAGGCGAGGTCTCGGCTCAGCCCGGT 240
DB 181 GCGCCCAACCCATCCCAAGCGCGCGCGCAACCGAGGCGAGGTCTCGGCTCAGCCCGGT 240
QY 241 ACCCTTGGCCCTATATGGGAATGAGGCTCGGGTGGCAGGCTGCTCTGTCCTCCCGG 300
DB 241 ACCCTTGGCCCTATATGGGAATGAGGCTCGGGTGGCAGGCTGCTCTGTCCTCCCGG 300
QY 301 GCGGCTCTC 309

DB 301 GCGGCTCTC 309
RESULT 3
US-08-931-855B-13
Sequence 13, Application US/08931855B
Patent No. 6692751
GENERAL INFORMATION:
APPLICANT: ZEBEDEE, SUZANNE
APPLICANT: INCHAUSPE, GENEVIEVE
APPLICANT: NASOFF, MARC S.
APPLICANT: PRINCE, ALFRED M.
APPLICANT: HELTING, TORSTEN B.
APPLICANT: DREVIN, HAKAN
APPLICANT: NUNN, MICHAEL F.
TITLE OF INVENTION: METHODS AND SYSTEMS FOR PRODUCING
TITLE OF INVENTION: RECOMBINANT VIRAL ANTIGENS
NUMBER OF SEQUENCES: 29
CORRESPONDENCE ADDRESS:
ADDRESSEE: James P. Hillman
STREET: 45010 Pawnee Drive
CITY: Fremont
STATE: CA
COUNTRY: USA
ZIP: 94539
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy Disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Word Perfect 5.0 Dos Txt
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/931,855B
FILING DATE: Sep 16, 1997
CLASSIFICATION: 435
CLASSIFICATION: 435
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US08/563,733
FILING DATE: 8-NOV-1995
APPLICATION NUMBER: US08/049,531
FILING DATE: 20-APR-1993
APPLICATION NUMBER: US07/344,237
FILING DATE: 26-APR-1989
APPLICATION NUMBER: US07/191,229
FILING DATE: 06-MAY-1988
APPLICATION NUMBER: US07/206,499
FILING DATE: 13-JUN-1988
APPLICATION NUMBER: US07/258,016
FILING DATE: 14-OCT-1988
APPLICATION NUMBER: US08/272,271
FILING DATE: 8-JUL-1994
APPLICATION NUMBER: US07/616,369
FILING DATE: 21-NOV-1990
APPLICATION NUMBER: US07/573,643
FILING DATE: 27-AUG-1990
ATTORNEY/AGENT INFORMATION:
NAME: James P. Hillman Esq.
REGISTRATION NUMBER: 29748
REFERENCE/DOCKET NUMBER: 55467/69
TELECOMMUNICATION INFORMATION:
TELEPHONE: (510) 651 3991
TELEFAX: (510) 651 5991
TELEX:
INFORMATION FOR SEQ ID NO: 13:
SEQUENCE CHARACTERISTICS:
LENGTH: 378 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: Genomic DNA
HYPOTHETICAL: no

```

; ANTI-SENSE: no
; FEATURE:
; NAME/KEY: CDS
; LOCATION: 16-375
US-08-931-855B-13

Query Match 12.5%; Score 43; DB 4; Length 378;
Best Local Similarity 100.0%; Pred. No. 4.7e-12;
Matches 43; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 211 CCGAGGCGAGGTCCTGGGCTCAGCCCGGCTACCCCTTGGCCCT 253
|
Db 227 CCGAGGCGAGGTCCTGGGCTCAGCCCGGCTACCCCTTGGCCCT 269
|

RESULT 4
US-08-441-971-60
; Sequence 60, Application US/08441971
; Patent No. 6071693
; GENERAL INFORMATION:
; APPLICANT: Tai-An Cha
; TITLE OF INVENTION: HCV GENOMIC SEQUENCES FOR
; NUMBER OF SEQUENCES: 147
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Wolf, Greenfield & Sacks, P.C.
; CITY: Boston
; STATE: Massachusetts
; COUNTRY: USA
; ZIP: 02210
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette, 5.25 inch
; COMPUTER: IBM compatible
; OPERATING SYSTEM: MS-DOS Version 3.3
; SOFTWARE: WordPerfect 5.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/441.971
; FILING DATE: 16-MAY-1995
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US/07/881.528
; FILING DATE:
; APPLICATION NUMBER: 07/697.326
; FILING DATE:
; NAME: Janiuk, Anthony J.
; REGISTRATION NUMBER: 29,809
; REFERENCE/DOCKET NUMBER: C0772/7000
; TELEPHONE: (617) 720-3500
; TELEFAX: (617) 720-2441
; TELEX: EZEKIEL
; INFORMATION FOR SEQ ID NO: 60:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 549 nucleotides
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA
; ORIGINAL SOURCE:
; INDIVIDUAL ISOLATE: nacs
US-08-441-971-60

Query Match 12.5%; Score 43; DB 3; Length 549;
Best Local Similarity 100.0%; Pred. No. 4.8e-12;
Matches 43; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 211 CCGAGGCGAGGTCCTGGGCTCAGCCCGGCTACCCCTTGGCCCT 253
|
Db 212 CCGAGGCGAGGTCCTGGGCTCAGCCCGGCTACCCCTTGGCCCT 254
|

```

```

RESULT 5
US-08-221-653-60
; Sequence 60, Application US/08221653
; Patent No. 6190864
; GENERAL INFORMATION:
; APPLICANT: Tai-An Cha
; TITLE OF INVENTION: HCV GENOMIC SEQUENCES FOR
; NUMBER OF SEQUENCES: 147
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Wolf, Greenfield & Sacks, P.C.
; CITY: Boston
; STATE: Massachusetts
; COUNTRY: USA
; ZIP: 02210
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette, 5.25 inch
; COMPUTER: IBM compatible
; OPERATING SYSTEM: MS-DOS Version 3.3
; SOFTWARE: WordPerfect 5.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/221.653
; FILING DATE:
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US/07/881.528
; FILING DATE:
; APPLICATION NUMBER: 07/697.326
; FILING DATE: 8 May 1991
; ATTORNEY/AGENT INFORMATION:
; NAME: Janiuk, Anthony J.
; REGISTRATION NUMBER: 29,809
; REFERENCE/DOCKET NUMBER: C0772/7000
; TELEPHONE: (617) 720-3500
; TELEFAX: (617) 720-2441
; TELEX: EZEKIEL
; INFORMATION FOR SEQ ID NO: 60:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 549 nucleotides
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA
; ORIGINAL SOURCE:
; INDIVIDUAL ISOLATE: nacs
US-08-221-653-60

Query Match 12.5%; Score 43; DB 3; Length 549;
Best Local Similarity 100.0%; Pred. No. 4.8e-12;
Matches 43; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 211 CCGAGGCGAGGTCCTGGGCTCAGCCCGGCTACCCCTTGGCCCT 253
|
Db 212 CCGAGGCGAGGTCCTGGGCTCAGCCCGGCTACCCCTTGGCCCT 254
|

RESULT 6
US-08-442-144A-60
; Sequence 60, Application US/08442144A
; Patent No. 6214583
; GENERAL INFORMATION:
; APPLICANT: Tai-An Cha
; APPLICANT: Eileen Beall
; APPLICANT: Bruce Irvine
; APPLICANT: Janice Kolberg
; APPLICANT: Michael S. Urdea
; TITLE OF INVENTION: HCV GENOMIC SEQUENCES FOR
; NUMBER OF SEQUENCES: 148

```

```
;
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Chiron Corporation
; STREET: 4560 Horton Street
; CITY: Emeryville
; STATE: California
; COUNTRY: USA
; ZIP: 94608-2916
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette, 3.5 Inch
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: Windows NT
; SOFTWARE: Microsoft Word 97
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/442,144A
; FILING DATE: MAY 16, 1995
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/221,653
; FILING DATE: APRIL 1, 1994
; ATTORNEY/AGENT INFORMATION:
; NAME: Doreen Yacko Trujillo
; REGISTRATION NUMBER: 35,719
; REFERENCE/DOCKET NUMBER: CHIR-0121
; TELEPHONE: 215-568-3100
; TELEFAX: 215-568-3439
; TELEX:
; INFORMATION FOR SEQ ID NO: 60:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 549 Nucleotides
; TYPE: Nucleic Acid
; STRANDEDNESS: Single
; TOPOLOGY: Linear
; MOLECULE TYPE: DNA
; ORIGINAL SOURCE:
; INDIVIDUAL ISOLATE: nac5
; US-08-442-144A-60

Query Match 12.5%; Score 43; DB 3; Length 549;
Best Local Similarity 100.0%; Pred. No. 4.8e-12;
Matches 43; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

;
; QY 211 CCGAGGCGAGTCTGGCTCAGCCCGGTACCCCTTGGCCCT 253
; |
; Db 212 CCGAGGCGAGTCTGGCTCAGCCCGGTACCCCTTGGCCCT 254
; |

RESULT 7
US-08-441-970-60
; Sequence 60, Application US/08441970
; Patent No. 6297370
; GENERAL INFORMATION:
; APPLICANT: Tai-An Cha
; TITLE OF INVENTION: HCV GENOMIC SEQUENCES FOR
; TITLE OF INVENTION: DIAGNOSTICS AND THERAPEUTICS
; NUMBER OF SEQUENCES: 147
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Wolf, Greenfield & Sacks, P.C.
; STREET: 600 Atlantic Avenue
; CITY: Boston
; STATE: Massachusetts
; COUNTRY: USA
; ZIP: 02210
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette, 5.25 inch
; COMPUTER: IBM compatible
; OPERATING SYSTEM: MS-DOS Version 3.3
; SOFTWARE: WordPerfect 5.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/441,970
; FILING DATE: 16-MAY-1995
; CLASSIFICATION: 536
; PRIOR APPLICATION DATA:
; INFORMATION FOR SEQ ID NO: 141:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 573 base pairs
; TYPE: nucleic acid

;
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Chiron Corporation
; STREET: 4560 Horton Street
; CITY: Emeryville
; STATE: California
; COUNTRY: USA
; ZIP: 94608-2916
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette, 3.5 Inch
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: Windows NT
; SOFTWARE: Microsoft Word 97
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/442,144A
; FILING DATE: MAY 16, 1995
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/221,653
; FILING DATE: APRIL 1, 1994
; ATTORNEY/AGENT INFORMATION:
; NAME: Doreen Yacko Trujillo
; REGISTRATION NUMBER: 35,719
; REFERENCE/DOCKET NUMBER: CHIR-0121
; TELEPHONE: 215-568-3100
; TELEFAX: 215-568-3439
; TELEX:
; INFORMATION FOR SEQ ID NO: 60:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 549 nucleotides
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA
; ORIGINAL SOURCE:
; INDIVIDUAL ISOLATE: nac5
; US-08-441-970-60

Query Match 12.5%; Score 43; DB 3; Length 549;
Best Local Similarity 100.0%; Pred. No. 4.8e-12;
Matches 43; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

;
; QY 211 CCGAGGCGAGTCTGGCTCAGCCCGGTACCCCTTGGCCCT 253
; |
; Db 212 CCGAGGCGAGTCTGGCTCAGCCCGGTACCCCTTGGCCCT 254
; |

RESULT 8
US-08-290-665A-141
; Sequence 141, Application US/08290665A
; Patent No. 5882852
; GENERAL INFORMATION:
; APPLICANT: BUKH, J., MILLER, R.H. AND
; TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED
; TITLE OF INVENTION: AMINO ACID SEQUENCES OF THE ENVELOPE 1 AND
; TITLE OF INVENTION: CORE GENES OF ISOLATES OF HEPATITIS C VIRUS
; TITLE OF INVENTION: AND THE USE OF REAGENTS DERIVED FROM THESE
; TITLE OF INVENTION: SEQUENCES IN DIAGNOSTIC METHODS AND VACCINES
; NUMBER OF SEQUENCES: 263
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: MORGAN & FINNEGAN
; STREET: 345 PARK AVENUE
; CITY: NEW YORK
; STATE: NEW YORK
; COUNTRY: USA
; ZIP: 10154
; COMPUTER READABLE FORM:
; MEDIUM TYPE: FLOPPY DISK
; COMPUTER: IBM PC COMPATIBLE
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: WORDPERFECT 5.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/290,665A
; FILING DATE: 15-AUG-1994
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: RICHARD W. BORK
; REGISTRATION NUMBER: 36,459
; REFERENCE/DOCKET NUMBER: 2026-4116
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (212) 758-4800
; TELEFAX: (212) 751-6849
; TELEX: 421792
; INFORMATION FOR SEQ ID NO: 141:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 573 base pairs
; TYPE: nucleic acid
```


STRANDEDNESS: single
TOPOLOGY: linear
ORIGINAL SOURCE:
ORGANISM: homosapiens
INDIVIDUAL ISOLATE: Z1
US-08-290-665A-141

Query Match 12.5%; Score 43; DB 2; Length 573;
Best Local Similarity 100.0%; Pred. No. 4.8e-12;
Matches 43; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 211 CCGAGGCGAGTCTCTGGGCTCAGCCGGGTACCCCTTGCCCT 253
Db 212 CCGAGGCGAGTCTCTGGGCTCAGCCGGGTACCCCTTGCCCT 254

RESULT 9

US-09-194-949A-5
Sequence 5, Application US/09194949A
Patent No. 6653125
GENERAL INFORMATION:
APPLICANT: Merck & Co., Inc.
APPLICANT: Donnelly, John J.
APPLICANT: Fu, Tong-Ming
APPLICANT: Liu, Margaret A.
APPLICANT: Shiver, John W.
TITLE OF INVENTION: SYNTHETIC HEPATITIS C GENES
FILE REFERENCE: 19732YP
CURRENT APPLICATION NUMBER: US/09/194, 949A
CURRENT FILING DATE: 2000-02-17
PRIOR APPLICATION NUMBER: PCT/US97/09884
PRIOR FILING DATE: 1997-06-06
PRIOR APPLICATION NUMBER: 60/020, 494
PRIOR FILING DATE: 1996-06-11
PRIOR APPLICATION NUMBER: 60/033, 534
PRIOR FILING DATE: 1996-12-20
PRIOR APPLICATION NUMBER: 08/865, 823
PRIOR FILING DATE: 1997-05-30
NUMBER OF SEQ ID NOS: 25
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 5
LENGTH: 573
TYPE: DNA
ORGANISM: Hepatitis C Virus
US-09-194-949A-5

Query Match 12.5%; Score 43; DB 4; Length 573;
Best Local Similarity 100.0%; Pred. No. 4.8e-12;
Matches 43; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 211 CCGAGGCGAGTCTCTGGGCTCAGCCGGGTACCCCTTGCCCT 253
Db 212 CCGAGGCGAGTCTCTGGGCTCAGCCGGGTACCCCTTGCCCT 254

RESULT 10

PCT-US95-10398-141
Sequence 141, Application PC/TUS9510398
GENERAL INFORMATION:
APPLICANT: BUKH, J., MILLER, R.H. AND
APPLICANT: PURCELL, R.H.
TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED
TITLE OF INVENTION: AMINO ACID SEQUENCES OF THE ENVELOPE 1 AND
TITLE OF INVENTION: CORE GENES OF ISOLATES OF HEPATITIS C VIRUS
TITLE OF INVENTION: AND THE USE OF REAGENTS DERIVED FROM THESE
TITLE OF INVENTION: SEQUENCES IN DIAGNOSTIC METHODS AND VACCINES
NUMBER OF SEQUENCES: 263
CORRESPONDENCE ADDRESS:
ADDRESSEE: MORGAN & FINNEGAN
STREET: 345 PARK AVENUE
CITY: NEW YORK
STATE: NEW YORK
COUNTRY: USA

ZIP: 10154
COMPUTER READABLE FORM:
MEDIUM TYPE: FLOPPY DISK
COMPUTER: IBM PC COMPATIBLE
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: WORDPERFECT 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: PCT/US95/10398
FILING DATE: 15-AUG-1995
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/086, 428
FILING DATE: 29 JUNE 1993
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/290/665
FILING DATE: 15 AUGUST 1994
ATTORNEY/AGENT INFORMATION:
NAME: RICHARD W. BORK
REGISTRATION NUMBER: 36,459
REFERENCE/DOCKET NUMBER: 2026-4116
TELECOMMUNICATION INFORMATION:
TELEPHONE: (212) 758-4800
TELEFAX: (212) 751-6849
TELEX: 421792
INFORMATION FOR SEQ ID NO: 141:
SEQUENCE CHARACTERISTICS:
LENGTH: 573 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
ORIGINAL SOURCE:
ORGANISM: homosapiens
INDIVIDUAL ISOLATE: Z1
PCT-US95-10398-141

Query Match 12.5%; Score 43; DB 5; Length 573;
Best Local Similarity 100.0%; Pred. No. 4.8e-12;
Matches 43; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 211 CCGAGGCGAGTCTCTGGGCTCAGCCGGGTACCCCTTGCCCT 253
Db 212 CCGAGGCGAGTCTCTGGGCTCAGCCGGGTACCCCTTGCCCT 254

RESULT 11

US-08-836-075A-65
Sequence 65, Application US/08836075A
Patent No. 6180768
GENERAL INFORMATION:
APPLICANT: MAERTENS, GEERT
APPLICANT: STUYVER, LIEVEN
TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES
TITLE OF INVENTION: AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC
TITLE OF INVENTION: AGENTS
NUMBER OF SEQUENCES: 207
CORRESPONDENCE ADDRESS:
ADDRESSEE: ARNOLD, WHITE & DURKEE
STREET: P.O. BOX 4433
CITY: HOUSTON
STATE: TEXAS
COUNTRY: USA
ZIP: 77210-4433
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Microsoft Word 6.0 / ASCII text output
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/836.075A
FILING DATE: 21 Apr 1997
PRIOR APPLICATION DATA:
APPLICATION NUMBER: PCT/EP95/04155
FILING DATE: 23 Oct 1995

;; PRIOR APPLICATION DATA:
;; APPLICATION NUMBER: EP 94870166.9
;; FILING DATE: 21 Oct 1994
;; PRIOR APPLICATION DATA:
;; APPLICATION NUMBER: EP 95870076.7
;; FILING DATE: 28 Jun 1995
;; ATTORNEY/AGENT INFORMATION:
;; NAME: KAMMERER, PATRICIA A.
;; REGISTRATION NUMBER: 29,775
;; REFERENCE/DOCKET NUMBER: INNS:004
;; INFORMATION FOR SEQ ID NO: 65:
;; SEQUENCE CHARACTERISTICS:
;; LENGTH: 831 base pairs
;; TYPE: nucleic acid
;; STRANDEDNESS: single
;; TOPOLOGY: linear
;; MOLECULE TYPE: cDNA
;; HYPOTHETICAL: NO
;; ANTI-SENSE: NO
;; US-08-836-075A-65

Query Match 12.5%; Score 43; DB 3; Length 831;
Best Local Similarity 100.0%; Pred. No. 4.8e-12;
Matches 43; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 211 CCGAGGGCAGGTCCTGGGCTCAGCCCGGGTACCCCTGGCCCT 253
Db 227 CCGAGGGCAGGTCCTGGGCTCAGCCCGGGTACCCCTGGCCCT 269

RESULT 12

US-08-290-665A-142
; Sequence 142, Application US/08290665A
; Patent No. 5882852

GENERAL INFORMATION:

;; APPLICANT: BURKH, J., MILLER, R.H. AND
;; APPLICANT: BURKH, J., MILLER, R.H.

;; TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED
;; TITLE OF INVENTION: AMINO ACID SEQUENCES OF THE ENVELOPE 1 AND
;; TITLE OF INVENTION: CORE GENES OF ISOLATES OF HEPATITIS C VIRUS
;; TITLE OF INVENTION: AND THE USE OF REAGENTS DERIVED FROM THESE
;; TITLE OF INVENTION: SEQUENCES IN DIAGNOSTIC METHODS AND VACCINES
;; NUMBER OF SEQUENCES: 263

CORRESPONDENCE ADDRESS:

;; ADDRESSEE: MORGAN & FINNEGAN
;; STREET: 345 PARK AVENUE
;; CITY: NEW YORK
;; STATE: NEW YORK
;; COUNTRY: USA

;; ZIP: 10154

COMPUTER READABLE FORM:

;; MEDIUM TYPE: FLOPPY DISK
;; COMPUTER: IBM PC COMPATIBLE
;; OPERATING SYSTEM: PC-DOS/MS-DOS
;; SOFTWARE: WORDPERFECT 5.1

CURRENT APPLICATION DATA:

;; APPLICATION NUMBER: US/08/290,665A

;; FILING DATE: 15-AUG-1994

CLASSIFICATION:

;; ATTORNEY/AGENT INFORMATION:

;; NAME: RICHARD W. BORK

;; REGISTRATION NUMBER: 36,459

;; REFERENCE/DOCKET NUMBER: 2026-4116

TELECOMMUNICATION INFORMATION:

;; TELEPHONE: (212) 758-4800

;; TELEFAX: (212) 751-6849

;; TELEX: 421792

INFORMATION FOR SEQ ID NO: 142:

;; SEQUENCE CHARACTERISTICS:

;; LENGTH: 573 base pairs

;; TYPE: nucleic acid

;; STRANDEDNESS: single

;; TOPOLOGY: linear

;; ORIGINAL SOURCE:
;; ORGANISM: homosapiens
;; INDIVIDUAL ISOLATE: Z5
;; US-08-290-665A-142

Query Match 11.6%; Score 40; DB 2; Length 573;
Best Local Similarity 100.0%; Pred. No. 1.6e-10;
Matches 40; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 211 CCGAGGGCAGGTCCTGGGCTCAGCCCGGGTACCCCTGGCC 250
Db 212 CCGAGGGCAGGTCCTGGGCTCAGCCCGGGTACCCCTGGCC 251

RESULT 13

PCT-US95-10398-142

; Sequence 142, Application PC/TUS9510398

GENERAL INFORMATION:

;; APPLICANT: BURKH, J., MILLER, R.H. AND

;; APPLICANT: BURKH, J., MILLER, R.H.

;; TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED

;; TITLE OF INVENTION: AMINO ACID SEQUENCES OF THE ENVELOPE 1 AND

;; TITLE OF INVENTION: CORE GENES OF ISOLATES OF HEPATITIS C VIRUS

;; TITLE OF INVENTION: AND THE USE OF REAGENTS DERIVED FROM THESE

;; TITLE OF INVENTION: SEQUENCES IN DIAGNOSTIC METHODS AND VACCINES

;; NUMBER OF SEQUENCES: 263

CORRESPONDENCE ADDRESS:

;; ADDRESSEE: MORGAN & FINNEGAN

;; STREET: 345 PARK AVENUE

;; CITY: NEW YORK

;; STATE: NEW YORK

;; COUNTRY: USA

;; ZIP: 10154

COMPUTER READABLE FORM:

;; MEDIUM TYPE: FLOPPY DISK

;; COMPUTER: IBM PC COMPATIBLE

;; OPERATING SYSTEM: PC-DOS/MS-DOS

;; SOFTWARE: WORDPERFECT 5.1

;; CURRENT APPLICATION DATA:

;; APPLICATION NUMBER: PCT/US95/10398

;; FILING DATE: 15-AUG-1995

CLASSIFICATION:

;; PRIOR APPLICATION DATA:

;; APPLICATION NUMBER: 08/086,428

;; FILING DATE: 29 JUNE 1993

;; PRIOR APPLICATION DATA:

;; APPLICATION NUMBER: 08/290/665

;; FILING DATE: 15 AUGUST 1994

;; ATTORNEY/AGENT INFORMATION:

;; NAME: RICHARD W. BORK

;; REGISTRATION NUMBER: 36,459

;; REFERENCE/DOCKET NUMBER: 2026-4116

TELECOMMUNICATION INFORMATION:

;; TELEPHONE: (212) 758-4800

;; TELEFAX: (212) 751-6849

;; TELEX: 421792

;; INFORMATION FOR SEQ ID NO: 142:

;; SEQUENCE CHARACTERISTICS:

;; LENGTH: 573 base pairs

;; TYPE: nucleic acid

;; STRANDEDNESS: single

;; TOPOLOGY: linear

ORIGINAL SOURCE:

;; ORGANISM: homosapiens

;; INDIVIDUAL ISOLATE: Z5

;; PCT-US95-10398-142

Query Match 11.6%; Score 40; DB 5; Length 573;
Best Local Similarity 100.0%; Pred. No. 1.6e-10;
Matches 40; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 211 CCGAGGGCAGGTCCTGGGCTCAGCCCGGGTACCCCTGGCC 250
Db 212 CCGAGGGCAGGTCCTGGGCTCAGCCCGGGTACCCCTGGCC 251

Db 212 CCGAGGGCAGGTCTCTGGGCTCAGCCCGGTACCTTGCC 251

RESULT 14

US-08-290-665A-136
; Sequence 136, Application US/08290665A
; Patent No. 5882852
; GENERAL INFORMATION:
; APPLICANT: BUKH, J., MILLER, R.H. AND
; APPLICANT: PURCELL, R.H.
; TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED
; TITLE OF INVENTION: AMINO ACID SEQUENCES OF THE ENVELOPE 1 AND
; TITLE OF INVENTION: CORE GENES OF ISOLATES OF HEPATITIS C VIRUS
; TITLE OF INVENTION: AND THE USE OF REAGENTS DERIVED FROM THESE
; TITLE OF INVENTION: SEQUENCES IN DIAGNOSTIC METHODS AND VACCINES
; NUMBER OF SEQUENCES: 263
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: MORGAN & FINNEGAN
; STREET: 345 PARK AVENUE
; CITY: NEW YORK
; STATE: NEW YORK
; COUNTRY: USA
; ZIP: 10154
; COMPUTER READABLE FORM:
; MEDIUM TYPE: FLOPPY DISK
; COMPUTER: IBM PC COMPATIBLE
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: WORDPERFECT 5.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/290.665A
; FILING DATE: 15-AUG-1994
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: RICHARD W. BORK
; REGISTRATION NUMBER: 36,459
; REFERENCE/DOCKET NUMBER: 2026-4116
; TELEPHONE: (212) 758-4800
; TELEFAX: (212) 751-6849
; TELEX: 421792
; INFORMATION FOR SEQ ID NO: 136:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 573 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; ORIGINAL SOURCE:
; ORGANISM: homosapiens
; INDIVIDUAL ISOLATE: S52
US-08-290-665A-136

Query Match 11.0%; Score 38; DB 2; Length 573;
Best Local Similarity 100.0%; Pred. No. 1.7e-09;
Matches 38; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Oy 261 AATGAGGCTCGGGTGGCGAGGTGGCTCCTGTGCCCC 298
|||
Db 262 AATGAGGCTCGGGTGGCGAGGTGGCTCCTGTGCCCC 299

RESULT 15

PCT-US95-10398-136
; Sequence 136, Application PC/TUS9510398
; GENERAL INFORMATION:
; APPLICANT: BUKH, J., MILLER, R.H. AND
; APPLICANT: PURCELL, R.H.
; TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED
; TITLE OF INVENTION: AMINO ACID SEQUENCES OF THE ENVELOPE 1 AND
; TITLE OF INVENTION: CORE GENES OF ISOLATES OF HEPATITIS C VIRUS
; TITLE OF INVENTION: AND THE USE OF REAGENTS DERIVED FROM THESE
; TITLE OF INVENTION: SEQUENCES IN DIAGNOSTIC METHODS AND VACCINES
; NUMBER OF SEQUENCES: 263
; CORRESPONDENCE ADDRESS:

; ADDRESSEE: MORGAN & FINNEGAN
; STREET: 345 PARK AVENUE
; CITY: NEW YORK
; STATE: NEW YORK
; COUNTRY: USA
; ZIP: 10154
; COMPUTER READABLE FORM:
; MEDIUM TYPE: FLOPPY DISK
; COMPUTER: IBM PC COMPATIBLE
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: WORDPERFECT 5.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: PCT/US95/10398
; FILING DATE: 15-AUG-1995
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/086,428
; FILING DATE: 29 JUNE 1993
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/290/665
; FILING DATE: 15 AUGUST 1994
; ATTORNEY/AGENT INFORMATION:
; NAME: RICHARD W. BORK
; REGISTRATION NUMBER: 36,459
; REFERENCE/DOCKET NUMBER: 2026-4116
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (212) 758-4800
; TELEFAX: (212) 751-6849
; TELEX: 421792
; INFORMATION FOR SEQ ID NO: 136:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 573 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; ORIGINAL SOURCE:
; ORGANISM: homosapiens
; INDIVIDUAL ISOLATE: S52
PCT-US95-10398-136

Query Match 11.0%; Score 38; DB 5; Length 573;
Best Local Similarity 100.0%; Pred. No. 1.7e-09;
Matches 38; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Oy 261 AATGAGGCTCGGGTGGCGAGGTGGCTCCTGTGCCCC 298
|||
Db 262 AATGAGGCTCGGGTGGCGAGGTGGCTCCTGTGCCCC 299

Search completed: April 14, 2005, 23:01:05
Job time : 134 secs

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OM nucleic - nucleic search, using sw model

Run on: April 14, 2005, 22:50:14 ; Search time 507 Seconds
(without alignments)
4128.235 Million cell updates/sec

Title: US-09-873-224A-147

Perfect score: 345

Sequence: 1 atgagcacattcttaaac.....aaatgaccccgccgagga 345

Scoring table: OLIGO_NUC

Gapop 60.0 , Gapext 60.0

Searched: 5622541 seqs, 303355566 residues

Word size : 0

Total number of hits satisfying chosen parameters: 11245082

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Listing first 45 summaries

Database : Published Applications NA:*

- 1: /cgn2_6/ptodata/1/pubpna/US07_PUBCOMB.seq:*
- 2: /cgn2_6/ptodata/1/pubpna/PCT_NEW_PUB.seq:*
- 3: /cgn2_6/ptodata/1/pubpna/US06_NEW_PUB.seq:*
- 4: /cgn2_6/ptodata/1/pubpna/US06_PUBCOMB.seq:*
- 5: /cgn2_6/ptodata/1/pubpna/US07_NEW_PUB.seq:*
- 6: /cgn2_6/ptodata/1/pubpna/PCTUS_PUBCOMB.seq:*
- 7: /cgn2_6/ptodata/1/pubpna/US08_NEW_PUB.seq:*
- 8: /cgn2_6/ptodata/1/pubpna/US08_PUBCOMB.seq:*
- 9: /cgn2_6/ptodata/1/pubpna/US09A_PUBCOMB.seq:*
- 10: /cgn2_6/ptodata/1/pubpna/US09B_PUBCOMB.seq:*
- 11: /cgn2_6/ptodata/1/pubpna/US09C_PUBCOMB.seq:*
- 12: /cgn2_6/ptodata/1/pubpna/US09_NEW_PUB.seq:*
- 13: /cgn2_6/ptodata/1/pubpna/US10A_PUBCOMB.seq:*
- 14: /cgn2_6/ptodata/1/pubpna/US10B_PUBCOMB.seq:*
- 15: /cgn2_6/ptodata/1/pubpna/US10C_PUBCOMB.seq:*
- 16: /cgn2_6/ptodata/1/pubpna/US10D_PUBCOMB.seq:*
- 17: /cgn2_6/ptodata/1/pubpna/US10E_PUBCOMB.seq:*
- 18: /cgn2_6/ptodata/1/pubpna/US10F_PUBCOMB.seq:*
- 19: /cgn2_6/ptodata/1/pubpna/US10_NEW_PUB.seq:*
- 20: /cgn2_6/ptodata/1/pubpna/US11_NEW_PUB.seq:*
- 21: /cgn2_6/ptodata/1/pubpna/US60_NEW_PUB.seq:*
- 22: /cgn2_6/ptodata/1/pubpna/US60_PUBCOMB.seq:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	345	100.0	345	10	US-09-873-224-147
2	309	89.6	309	9	US-09-851-138-49
3	296	85.8	346	10	US-09-899-046-147
4	296	85.8	346	10	US-09-878-281-147
5	43	12.5	378	18	US-10-677-956-13
6	43	12.5	573	10	US-09-194-949-5
7	43	12.5	573	19	US-10-664-391-5
8	43	12.5	831	9	US-09-851-138-65
9	31	9.0	152	9	US-09-921-397-39
10	31	9.0	234	9	US-09-921-397-41
11	31	9.0	300	16	US-10-071-867-16
					Sequence 147, App
					Sequence 49, Appl
					Sequence 147, App
					Sequence 13, Appl
					Sequence 5, Appli
					Sequence 5, Appli
					Sequence 65, Appl
					Sequence 39, Appl
					Sequence 41, Appl
					Sequence 16, Appl

12	31	9.0	310	9	US-09-921-397-114	Sequence 114, App
13	31	9.0	327	9	US-09-851-138-1	Sequence 1, Appli
14	31	9.0	339	9	US-09-921-397-115	Sequence 115, App
15	31	9.0	360	9	US-09-306-780-3	Sequence 3, Appli
16	31	9.0	378	18	US-10-677-956-7	Sequence 7, Appli
17	31	9.0	378	18	US-10-677-956-9	Sequence 9, Appli
18	31	9.0	450	9	US-09-306-780-5	Sequence 5, Appli
19	31	9.0	480	16	US-10-071-867-15	Sequence 15, Appl
20	31	9.0	480	19	US-10-664-038-11	Sequence 11, Appl
21	31	9.0	480	19	US-10-664-038-12	Sequence 12, Appl
22	31	9.0	480	19	US-10-664-038-13	Sequence 13, Appl
23	31	9.0	480	19	US-10-664-038-14	Sequence 14, Appl
24	31	9.0	480	19	US-10-664-038-15	Sequence 15, Appl
25	31	9.0	480	19	US-10-664-038-16	Sequence 16, Appl
26	31	9.0	483	9	US-09-306-780-7	Sequence 7, Appli
27	31	9.0	499	19	US-10-664-038-2	Sequence 2, Appli
28	31	9.0	528	9	US-09-306-780-19	Sequence 19, Appl
29	31	9.0	540	17	US-10-150-283-2	Sequence 2, Appli
30	31	9.0	573	9	US-09-306-780-9	Sequence 9, Appli
31	31	9.0	595	18	US-10-601-020-1	Sequence 1, Appli
32	31	9.0	708	17	US-10-365-620-57	Sequence 57, Appl
33	31	9.0	708	19	US-10-912-969-59	Sequence 59, Appl
34	31	9.0	750	17	US-10-365-620-53	Sequence 53, Appl
35	31	9.0	750	19	US-10-912-969-55	Sequence 55, Appl
36	31	9.0	843	9	US-09-306-780-11	Sequence 11, Appl
37	31	9.0	1380	17	US-10-365-620-59	Sequence 59, Appl
38	31	9.0	1380	19	US-10-912-969-61	Sequence 61, Appl
39	31	9.0	1380	19	US-10-913-171-40	Sequence 40, Appl
40	31	9.0	1422	17	US-10-365-620-55	Sequence 55, Appl
41	31	9.0	1422	19	US-10-912-969-57	Sequence 57, Appl
42	31	9.0	1422	19	US-10-913-171-38	Sequence 38, Appl
43	31	9.0	2025	17	US-10-387-336-8	Sequence 8, Appli
44	31	9.0	2031	17	US-10-387-336-7	Sequence 7, Appli
45	31	9.0	2433	9	US-09-973-025-49	Sequence 49, Appl

ALIGNMENTS

RESULT 1

; Sequence 147, Application US/09873224
; Publication No. US20030064360A1
; GENERAL INFORMATION:

APPLICANT: <Unknown>

TITLE OF INVENTION: New sequences of hepatitis C virus
genotypes for diagnosis, prophylaxis and therapy.

NUMBER OF SEQUENCES: 270

CORRESPONDENCE ADDRESS:

STREET: Industriepark Zwijnaarde 7, box 4

CITY: Ghent

COUNTRY: Belgium

ZIP: B-9052

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: PatentIn Release #1.0, Version #1.25 (EPO)

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/09/873,224

FILING DATE: 05-Jun-2001

CLASSIFICATION: <Unknown>

PRIOR APPLICATION DATA:

APPLICATION NUMBER: 08/362,455

FILING DATE: <Unknown>

ATTORNEY/AGENT INFORMATION:

NAME: Innogenetics sa.

TELECOMMUNICATION INFORMATION:

TELEPHONE: 00 32 9 241 07 11

TELEFAX: 00 32 9 241 07 99

INFORMATION FOR SEQ ID NO: 147:

SEQUENCE CHARACTERISTICS:

LENGTH: 345 base pairs

```

; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: CDNA
; HYPOTHETICAL: NO
; ANTI-SENSE: NO
; FEATURE:
; NAME/KEY: CDS
; LOCATION: 1..345
; NAME/KEY: mat_peptide
; LOCATION: 1..342
; SEQUENCE DESCRIPTION: SEQ ID NO: 147:
US-09-873-224-147

Query Match      100.0%; Score 345; DB 10; Length 345;
Best Local Similarity 100.0%; Pred. No. 3.3e-172;
Matches 345; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ATGAGCACACTTCTTAACACACAAAGAAACCAAAAGAAACCAACCAACCCCGCCACAGG 60
Db 1 ATGAGCACACTTCTTAACACACAAAGAAACCAAAAGAAACCAACCAACCCCGCCACAGG 60

QY 61 ACCTTAAGTTCCAGCGCGGTCAGATCGTTGGTGGAGTTTACGTCTACCAACGCGAGG 120
Db 61 ACCTTAAGTTCCAGCGCGGTCAGATCGTTGGTGGAGTTTACGTCTACCAACGCGAGG 120

QY 121 GCCCCAGTTGGTGTGCGTGCAGTGCAGAACTTCCGAGCGGTGCGCAACTCGCAGTA 180
Db 121 GCCCCAGTTGGTGTGCGTGCAGTGCAGAACTTCCGAGCGGTGCGCAACTCGCAGTA 180

QY 181 GCGGCTCTCGCCGTCGTGGGGCCCAATGACCCCGCGCGCAGGA 345
Db 301 GCGGCTCTCGCCGTCGTGGGGCCCAATGACCCCGCGCGCAGGA 345

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RESULT 2
US-09-851-138-49
; Sequence 49, Application US/09851138
; Publication No. US20020183508A1
; GENERAL INFORMATION:
; APPLICANT: MAERTENS, GEERT
; TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES
; AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC
; AGENTS
; NUMBER OF SEQUENCES: 207
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: ARNOLD, WHITE & DURKEE
; STREET: P. O. BOX 4433
; CITY: HOUSTON
; STATE: TEXAS
; COUNTRY: USA
; ZIP: 77210-4433
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; OPERATING SYSTEM: IBM PC compatible
; SOFTWARE: Microsoft Word 6.0 / ASCII text output
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/851,138
; FILING DATE: 09-May-2001
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/836,075
; FILING DATE: <Unknown>

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; APPLICATION NUMBER: EP 94870166.9
; FILING DATE: 21 Oct 1994
; APPLICATION NUMBER: EP 95870076.7
; FILING DATE: 28 Jun 1995
; ATTORNEY/AGENT INFORMATION:
; NAME: KAMMERER, PATRICIA A.
; REGISTRATION NUMBER: 29,775
; REFERENCE/DOCKET NUMBER: INNS:004
; INFORMATION FOR SEQ ID NO: 49:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 309 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: CDNA
; HYPOTHETICAL: NO
; ANTI-SENSE: NO
; SEQUENCE DESCRIPTION: SEQ ID NO: 49:
US-09-851-138-49

Query Match      89.8%; Score 309; DB 9; Length 309;
Best Local Similarity 100.0%; Pred. No. 3.8e-153;
Matches 309; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ATGAGCACACTTCTTAACACACAAAGAAACCAAAAGAAACCAACCAACCCCGCCACAGG 60
Db 1 ATGAGCACACTTCTTAACACACAAAGAAACCAAAAGAAACCAACCAACCCCGCCACAGG 60

QY 61 ACCTTAAGTTCCAGCGCGGTCAGATCGTTGGTGGAGTTTACGTCTACCAACGCGAGG 120
Db 61 ACCTTAAGTTCCAGCGCGGTCAGATCGTTGGTGGAGTTTACGTCTACCAACGCGAGG 120

QY 121 GCCCCAGTTGGTGTGCGTGCAGTGCAGAACTTCCGAGCGGTGCGCAACTCGCAGTA 180
Db 121 GCCCCAGTTGGTGTGCGTGCAGTGCAGAACTTCCGAGCGGTGCGCAACTCGCAGTA 180

QY 181 GCGGCTCTCGCCGTCGTGGGGCCCAATGACCCCGCGCGCAGGA 300
Db 181 GCGGCTCTCGCCGTCGTGGGGCCCAATGACCCCGCGCGCAGGA 300

QY 241 ACCCTTGGCCCTTATATGGGAATGAGGGCTGCGGGTGGGAGGGTGGCTCTCTCCCGC 300
Db 241 ACCCTTGGCCCTTATATGGGAATGAGGGCTGCGGGTGGGAGGGTGGCTCTCTCCCGC 300

QY 301 GCGGCTCTC 309
Db 301 GCGGCTCTC 309

RESULT 3
US-09-899-046-147
; Sequence 147, Application US/09899046
; Publication No. US2003008274A1
; GENERAL INFORMATION:
; APPLICANT:
; TITLE OF INVENTION: New sequences of hepatitis C virus
; TITLE OF INVENTION: genotypes for diagnosis, prophylaxis and therapy.
; NUMBER OF SEQUENCES: 270
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; OPERATING SYSTEM: IBM PC compatible
; SOFTWARE: PatentIn Release #1.0, Version #1.25 (EPO)
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/899,046
; FILING DATE:
; APPLICATION NUMBER: 08/362,455
; INFORMATION FOR SEQ ID NO: 147:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 346 base pairs
; TYPE: nucleic acid

```

```

; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA
; HYPOTHETICAL: NO
; ANTI-SENSE: NO
; FEATURE:
; NAME/KEY: CDS
; LOCATION: 1..346
; FEATURE:
; NAME/KEY: mat_peptide
; LOCATION: 1..342
US-09-899-046-147

Query Match      85.8%; Score 296; DB 10; Length 346;
Best Local Similarity 100.0%; Pred. No. 2.8e-146;
Matches 296; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 50 CCGGCCACAGGACGTTAAGTTCACAGGCGGCGGTGAGTTCGTTGGTGGAGTTAGTGCT 109
DB 51 CCGGCCACAGGACGTTAAGTTCACAGGCGGCGGTGAGTTCGTTGGTGGAGTTAGTGCT 110
QY 110 ACCAGCGAGGCGGCCCGGAGTTGGGTGTCGTCAGTGGCGCAAGACTTCCGAGCGGTGCGA 169
DB 111 ACCAGCGAGGCGGCCCGGAGTTGGGTGTCGTCAGTGGCGCAAGACTTCCGAGCGGTGCGA 170
QY 170 ACCTGCGAGTAGGCGGCCAACCAATCCCGAGGCGCGCGCAACCGAGGCGAGGTCTCTGGGC 229
DB 171 ACCTGCGAGTAGGCGGCCAACCAATCCCGAGGCGCGCGCGCAACCGAGGCGAGGTCTCTGGGC 230
QY 230 TCAGCGCGGTACCGTTGGCCCTATATGGGAATGAGGCTGCGGTGGGCGAGGTGCGT 289
DB 231 TCAGCGCGGTACCGTTGGCCCTATATGGGAATGAGGCTGCGGTGGGCGAGGTGCGT 290
QY 290 CCGTGTCCCGCGCGGCTCTCGCCCTGTCGGGCGCCAAATGACCCCGCGCGCAGGA 345
DB 291 CCGTGTCCCGCGCGGCTCTCGCCCTGTCGGGCGCCAAATGACCCCGCGCGCAGGA 346

RESULT 4
US-09-878-281-147
; Sequence 147, Application US/09878281
; Publication No. US20030032005A1
; GENERAL INFORMATION:
; APPLICANT:
; TITLE OF INVENTION: New sequences of hepatitis C virus
; TITLE OF INVENTION: genotypes for diagnosis, prophylaxis and therapy.
; NUMBER OF SEQUENCES: 270
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25 (EPO)
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/878,281
; FILING DATE:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/362,455
; FILING DATE:
; INFORMATION FOR SEQ ID NO: 147:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 346 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA
; HYPOTHETICAL: NO
; ANTI-SENSE: NO
; FEATURE:
; NAME/KEY: CDS
; LOCATION: 1..346
; FEATURE:
; NAME/KEY: mat_peptide
; LOCATION: 1..342

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US-09-878-281-147

Query Match      85.8%; Score 296; DB 10; Length 346;
Best Local Similarity 100.0%; Pred. No. 2.8e-146;
Matches 296; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 50 CCGGCCACAGGACGTTAAGTTCACAGGCGGCGGTGAGTTCGTTGGTGGAGTTAGTGCT 109
DB 51 CCGGCCACAGGACGTTAAGTTCACAGGCGGCGGTGAGTTCGTTGGTGGAGTTAGTGCT 110
QY 110 ACCAGCGAGGCGGCCCGGAGTTGGGTGTCGTCAGTGGCGCAAGACTTCCGAGCGGTGCGA 169
DB 111 ACCAGCGAGGCGGCCCGGAGTTGGGTGTCGTCAGTGGCGCAAGACTTCCGAGCGGTGCGA 170
QY 170 ACCTGCGAGTAGGCGGCCAACCAATCCCGAGGCGCGCGCAACCGAGGCGAGGTCTCTGGGC 229
DB 171 ACCTGCGAGTAGGCGGCCAACCAATCCCGAGGCGCGCGCGCAACCGAGGCGAGGTCTCTGGGC 230
QY 230 TCAGCGCGGTACCGTTGGCCCTATATGGGAATGAGGCTGCGGTGGGCGAGGTGCGT 289
DB 231 TCAGCGCGGTACCGTTGGCCCTATATGGGAATGAGGCTGCGGTGGGCGAGGTGCGT 290
QY 290 CCGTGTCCCGCGCGGCTCTCGCCCTGTCGGGCGCCAAATGACCCCGCGCGCAGGA 345
DB 291 CCGTGTCCCGCGCGGCTCTCGCCCTGTCGGGCGCCAAATGACCCCGCGCGCAGGA 346

RESULT 5
US-10-677-956-13
; Sequence 13, Application US/10677956
; Publication No. US20040214163A1
; GENERAL INFORMATION:
; APPLICANT: ZEBEDEE, SUZANNE
; INCHAUSPE, GENEVIEVE
; NASOFF, MARC S
; PRINCE, ALFRED M.
; HELTING, TORSTEN B.
; DREVIN, HAKAN
; NUNN, MICHAEL F.
; TITLE OF INVENTION: METHODS AND SYSTEMS FOR PRODUCING
; RECOMBINANT VIRAL ANTIGENS
; NUMBER OF SEQUENCES: 29
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: James P. Hillman
; STREET: 45010 Pawnee Drive
; CITY: Fremont
; STATE: CA
; COUNTRY: USA
; ZIP: 94539
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy Disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Word Perfect 5.0 Dos Txt
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/10/677,956
; FILING DATE: 01-Oct-2003
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US/08/931,855B
; FILING DATE: Sep 16, 1997
; APPLICATION NUMBER: US08/563,733
; FILING DATE: 8-NOV-1995
; APPLICATION NUMBER: US08/049,531
; FILING DATE: 20-APR-1993
; APPLICATION NUMBER: US07/344,237
; FILING DATE: 26-APR-1989
; APPLICATION NUMBER: US07/191,229
; FILING DATE: 06-MAY-1988
; APPLICATION NUMBER: US07/206,499
; FILING DATE: 13-JUN-1988
; APPLICATION NUMBER: US07/258,016
; FILING DATE: 14-OCT-1988

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APPLICATION NUMBER: US08/272,271
FILING DATE: 8-JUL-1994
APPLICATION NUMBER: US07/616,369
FILING DATE: 21-NOV-1990
APPLICATION NUMBER: US07/573,643
FILING DATE: 27-AUG-1990
ATTORNEY/AGENT INFORMATION:
NAME: James P. Hillman Esq.
REGISTRATION NUMBER: 29748
REFERENCE/DOCKET NUMBER: 55467/69
TELECOMMUNICATION INFORMATION:
TELEPHONE: (510) 651 3991
TELEFAX: (510) 651 5991
TELEX: <Unknown>
INFORMATION FOR SEQ ID NO: 13:
SEQUENCE CHARACTERISTICS:
LENGTH: 378 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: Genomic DNA
HYPOTHETICAL: no
ANTI-SENSE: no
FEATURE:
NAME/KEY: CDS
LOCATION: 16-375
SEQUENCE DESCRIPTION: SEQ ID NO: 13:
US-10-677-956-13

Query Match 12.5%; Score 43; DB 18; Length 378;
Best Local Similarity 100.0%; Pred. No. 2.3e-12;
Matches 43; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 211 CCAGGGCAGGTCCTGGGCTCAGCCCGGGTACCCCTTGGCCCT 253
DB 227 CCAGGGCAGGTCCTGGGCTCAGCCCGGGTACCCCTTGGCCCT 269

RESULT 6
US-09-194-949-5
Sequence 5, Application US/09194949
Publication No. US20030083987A1
GENERAL INFORMATION:
APPLICANT: Merck & Co., Inc.
APPLICANT: Donnelly, John J.
APPLICANT: Fu, Tong-Ming
APPLICANT: Liu, Margaret A.
APPLICANT: Shiver, John W.
TITLE OF INVENTION: SYNTHETIC HEPATITIS C GENES
FILE REFERENCE: 19732YP
CURRENT APPLICATION NUMBER: US/09/194,949
CURRENT FILING DATE: 2000-02-17
PRIOR APPLICATION NUMBER: PCT/US97/09884
PRIOR FILING DATE: 1997-06-06
PRIOR APPLICATION NUMBER: 60/020,494
PRIOR FILING DATE: 1996-06-11
PRIOR APPLICATION NUMBER: 60/033,534
PRIOR FILING DATE: 1996-12-20
NUMBER OF SEQ ID NOS: 25
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 5
LENGTH: 573
TYPE: DNA
ORGANISM: Hepatitis C Virus
US-09-194-949-5

Query Match 12.5%; Score 43; DB 10; Length 573;
Best Local Similarity 100.0%; Pred. No. 2.2e-12;
Matches 43; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 211 CCAGGGCAGGTCCTGGGCTCAGCCCGGGTACCCCTTGGCCCT 253
DB 212 CCAGGGCAGGTCCTGGGCTCAGCCCGGGTACCCCTTGGCCCT 254

RESULT 7
US-10-664-391-5
Sequence 5, Application US/10664391
Publication No. US20050074752A1
GENERAL INFORMATION:
APPLICANT: Donnelly, John J.
APPLICANT: Liu, Margaret A.
APPLICANT: Shiver, John W.
APPLICANT: Fu, Tong-Ming
TITLE OF INVENTION: SYNTHETIC HEPATITIS C GENES
FILE REFERENCE: 19732YPCA
CURRENT APPLICATION NUMBER: US/10/664,391
CURRENT FILING DATE: 2003-09-17
PRIOR APPLICATION NUMBER: PCT/US97/09884
PRIOR FILING DATE: 1997-06-06
PRIOR APPLICATION NUMBER: 60/033,534
PRIOR FILING DATE: 1996-12-20
PRIOR APPLICATION NUMBER: 60/020,494
PRIOR FILING DATE: 1996-06-11
NUMBER OF SEQ ID NOS: 25
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 5
LENGTH: 573
TYPE: DNA
ORGANISM: Hepatitis C Virus
US-10-664-391-5

Query Match 12.5%; Score 43; DB 19; Length 573;
Best Local Similarity 100.0%; Pred. No. 2.2e-12;
Matches 43; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 211 CCAGGGCAGGTCCTGGGCTCAGCCCGGGTACCCCTTGGCCCT 253
DB 212 CCAGGGCAGGTCCTGGGCTCAGCCCGGGTACCCCTTGGCCCT 254

RESULT 8
US-09-851-138-65
Sequence 65, Application US/09851138
Publication No. US20020183508A1
GENERAL INFORMATION:
APPLICANT: MAERTENS, GEERT
TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES
AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC
AGENTS
NUMBER OF SEQUENCES: 207
CORRESPONDENCE ADDRESS:
ADDRESSEE: ARNOLD, WHITE & DURKEE
STREET: P.O. BOX 4433
CITY: HOUSTON
STATE: TEXAS
COUNTRY: USA
ZIP: 77210-4433
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Microsoft Word 6.0 / ASCII text output
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/851,138
FILING DATE: 09-May-2001
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/836,075
FILING DATE: <Unknown>
APPLICATION NUMBER: EP 94870166.9
FILING DATE: 21 Oct 1994
APPLICATION NUMBER: EP 95870076.7
FILING DATE: 28 Jun 1995
ATTORNEY/AGENT INFORMATION:
NAME: KAMMERER, PATRICIA A.


```
;
;   REGISTRATION NUMBER: 29,775
;   REFERENCE/DOCKET NUMBER: INNS:004
;   INFORMATION FOR SEQ ID NO: 65:
;     SEQUENCE CHARACTERISTICS:
;       LENGTH: 831 base pairs
;       TYPE: nucleic acid
;       STRANDEDNESS: single
;       TOPOLOGY: linear
;     MOLECULE TYPE: cDNA
;     HYPOTHETICAL: NO
;     ANTI-SENSE: NO
;     SEQUENCE DESCRIPTION: SEQ ID NO: 65:
US-09-851-138-65

Query Match          12.5%; Score 43; DB 9; Length 831;
Best Local Similarity 100.0%; Pred. No. 2.1e-12;
Matches 43; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 211 CCGAGGCGAGTCTCTGGGCTCAGCCCGGTACCCCTTGGCCCT 253
Db 227 CCGAGGCGAGTCTCTGGGCTCAGCCCGGTACCCCTTGGCCCT 269

RESULT 9
US-09-921-397-39
; Sequence 39, Application US/09921397
; Patent No. US20020151484A1
; GENERAL INFORMATION:
; APPLICANT: HYBRIGENICS
; TITLE OF INVENTION: SID nucleic acids and polypeptides selected from a
; TITLE OF INVENTION: pathogenic strain of the hepatitis C virus and
; FILE REFERENCE: B4809A - JAZ
; CURRENT APPLICATION NUMBER: US/09/921,397
; CURRENT FILING DATE: 2001-08-02
; PRIOR APPLICATION NUMBER: EP 00402225.7
; PRIOR FILING DATE: 2000-08-03
; NUMBER OF SEQ ID NOS: 156
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 39
; LENGTH: 152
; TYPE: DNA
; ORGANISM: Hepatitis C virus
US-09-921-397-39

Query Match          9.0%; Score 31; DB 9; Length 152;
Best Local Similarity 100.0%; Pred. No. 5.7e-06;
Matches 31; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 223 CCGGGCTCAGCCCGGTACCCCTTGGCCCT 253
Db 120 CCGGGCTCAGCCCGGTACCCCTTGGCCCT 150

RESULT 10
US-09-921-397-41
; Sequence 41, Application US/09921397
; Patent No. US20020151484A1
; GENERAL INFORMATION:
; APPLICANT: HYBRIGENICS
; TITLE OF INVENTION: SID nucleic acids and polypeptides selected from a
; TITLE OF INVENTION: pathogenic strain of the hepatitis C virus and
; FILE REFERENCE: B4809A - JAZ
; CURRENT APPLICATION NUMBER: US/09/921,397
; CURRENT FILING DATE: 2001-08-02
; PRIOR APPLICATION NUMBER: EP 00402225.7
; PRIOR FILING DATE: 2000-08-03
; NUMBER OF SEQ ID NOS: 156
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 41
; LENGTH: 234
; TYPE: DNA
US-09-873-224a-147.olig.rnpb

; ORGANISM: Hepatitis C virus
US-09-921-397-41

Query Match          9.0%; Score 31; DB 9; Length 234;
Best Local Similarity 100.0%; Pred. No. 5.4e-06;
Matches 31; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 223 CCGGGCTCAGCCCGGTACCCCTTGGCCCT 253
Db 186 CCGGGCTCAGCCCGGTACCCCTTGGCCCT 216

RESULT 11
US-10-071-867-16
; Sequence 16, Application US/10071867
; Publication No. US20030166267A1
; GENERAL INFORMATION:
; APPLICANT: Creagene Inc.
; TITLE OF INVENTION: METHOD FOR IMPROVING GENETIC STABILITY OF FOREIGN INSERT
; TITLE OF INVENTION: NUCLEOTIDE SEQUENCE IN RECOMBINANT SINGLE-STRANDED RNA VIRUS
; FILE REFERENCE: Creagene-USA-1
; CURRENT APPLICATION NUMBER: US/10/071,867
; CURRENT FILING DATE: 2002-02-08
; PRIOR APPLICATION NUMBER: KR 2001-6229
; PRIOR FILING DATE: 2001-02-08
; NUMBER OF SEQ ID NOS: 95
; SOFTWARE: KopatentIn 1.71
; SEQ ID NO 16
; LENGTH: 300
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: HCV core-100
US-10-071-867-16

Query Match          9.0%; Score 31; DB 16; Length 300;
Best Local Similarity 100.0%; Pred. No. 5.3e-06;
Matches 31; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 223 CCGGGCTCAGCCCGGTACCCCTTGGCCCT 253
Db 224 CCGGGCTCAGCCCGGTACCCCTTGGCCCT 254

RESULT 12
US-09-921-397-114
; Sequence 114, Application US/09921397
; Patent No. US20020151484A1
; GENERAL INFORMATION:
; APPLICANT: HYBRIGENICS
; TITLE OF INVENTION: SID nucleic acids and polypeptides selected from a
; TITLE OF INVENTION: pathogenic strain of the hepatitis C virus and
; FILE REFERENCE: B4809A - JAZ
; CURRENT APPLICATION NUMBER: US/09/921,397
; CURRENT FILING DATE: 2001-08-02
; PRIOR APPLICATION NUMBER: EP 00402225.7
; PRIOR FILING DATE: 2000-08-03
; NUMBER OF SEQ ID NOS: 156
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 114
; LENGTH: 310
; TYPE: DNA
; ORGANISM: Hepatitis C virus
US-09-921-397-114

Query Match          9.0%; Score 31; DB 9; Length 310;
Best Local Similarity 100.0%; Pred. No. 5.3e-06;
Matches 31; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 223 CCGGGCTCAGCCCGGTACCCCTTGGCCCT 253
Db 264 CCGGGCTCAGCCCGGTACCCCTTGGCCCT 294
```

RESULT 13

US-09-851-138-1

; Sequence 1, Application US/09851138

; Publication No. US20020183508A1

; GENERAL INFORMATION:

; APPLICANT: MAERTENS, GEERT

; TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES

; AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC

; AGENTS

; NUMBER OF SEQUENCES: 207

; CORRESPONDENCE ADDRESS:

; ADDRESSEE: ARNOLD, WHITE & DURKEE

; STREET: P.O. BOX 4433

; CITY: HOUSTON

; STATE: TEXAS

; COUNTRY: USA

; ZIP: 77210-4433

; COMPUTER READABLE FORM:

; MEDIUM TYPE: Floppy disk

; COMPUTER: IBM PC compatible

; OPERATING SYSTEM: PC-DOS/MS-DOS

; SOFTWARE: Microsoft Word 6.0 / ASCII text output

; CURRENT APPLICATION DATA:

; APPLICATION NUMBER: US/09/851,138

; FILING DATE: 09-May-2001

; PRIOR APPLICATION DATA:

; APPLICATION NUMBER: 08/836,075

; FILING DATE: <Unknown>

; APPLICATION NUMBER: EP 94870166.9

; FILING DATE: 21 Oct 1994

; APPLICATION NUMBER: EP 95870076.7

; FILING DATE: 28 Jun 1995

; ATTORNEY/AGENT INFORMATION:

; NAME: KAMMERER, PATRICIA A.

; REGISTRATION NUMBER: 29,775

; REFERENCE/DOCKET NUMBER: INNS:004

; INFORMATION FOR SEQ ID NO: 1:

; SEQUENCE CHARACTERISTICS:

; LENGTH: 327 base pairs

; TYPE: nucleic acid

; STRANDEDNESS: single

; TOPOLOGY: linear

; MOLECULE TYPE: cDNA

; HYPOTHETICAL: NO

; ANTI-SENSE: NO

; SEQUENCE DESCRIPTION: SEQ ID NO: 1:

US-09-851-138-1

Query Match

; Sequence 115, Application US/09921397

; Patent No. US20020151484A1

; Matches 31; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY

211 CCAGGGGCGAGTCTGGGCTCAGCCCGGTA 241

|||||

Db 212 CCAGGGGCGAGTCTGGGCTCAGCCCGGTA 242

RESULT 14

US-09-921-397-115

; Sequence 115, Application US/09921397

; Patent No. US20020151484A1

; GENERAL INFORMATION:

; APPLICANT: HYBRIGENICS

; TITLE OF INVENTION: SID nucleic acids and polypeptides selected from a

; TITLE OF INVENTION: pathogenic strain of the hepatitis C virus and

; TITLE OF INVENTION: applications thereof

; FILE REFERENCE: B4809A - JAZ

; CURRENT APPLICATION NUMBER: US/09/921,397

; CURRENT FILING DATE: 2001-08-02

; PRIOR APPLICATION NUMBER: EP 00402225.7

; PRIOR FILING DATE: 2000-08-03

; NUMBER OF SEQ ID NOS: 156

; SOFTWARE: PatentIn Ver. 2.1

; SEQ ID NO 115

; LENGTH: 339

; TYPE: DNA

; ORGANISM: Hepatitis C virus

US-09-921-397-115

Query Match

; Best Local Similarity 9.0%; Score 31; DB 9; Length 339;

; Matches 31; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY

223 CCTGGGCTCAGCCCGGTACCCCTGGCCCT 253

|||||

Db 224 CCTGGGCTCAGCCCGGTACCCCTGGCCCT 254

|||||

RESULT 15

US-09-306-780-3

; Sequence 3, Application US/09306780

; Publication No. US20010051336A1

; GENERAL INFORMATION:

; APPLICANT: TAKEMURA, FUMINORI

; UENO, EIICHI

; ITOH, SATORU

; TITLE OF INVENTION: NUCLEIC ACID-BOUND POLYPEPTIDE, METHOD

; OF PRODUCING NUCLEIC ACID-BOUND POLYPEPTIDE AND

; IMMUNOASSAY USING THE POLYPEPTIDE.

; NUMBER OF SEQUENCES: 20

; CORRESPONDENCE ADDRESS:

; ADDRESSEE: OBLON, SPIVAK, MCLELLAND, MAIER & NEUSTADT,

; P.C.

; STREET: 1755 S. JEFFERSON DAVIS HIGHWAY, SUITE 400

; CITY: ARLINGTON

; STATE: VA

; COUNTRY: U.S.A.

; ZIP: 22202

; COMPUTER READABLE FORM:

; MEDIUM TYPE: Floppy disk

; COMPUTER: IBM PC compatible

; OPERATING SYSTEM: PC-DOS/MS-DOS

; SOFTWARE: PatentIn Release #1.0, Version #1.30

; CURRENT APPLICATION DATA:

; APPLICATION NUMBER: US/09/306,780

; FILING DATE: 07-May-1999

; CLASSIFICATION: <Unknown>

; PRIOR APPLICATION DATA:

; APPLICATION NUMBER: US/08/841,657A

; FILING DATE: 30-APR-1997

; APPLICATION NUMBER: JP 8-134444

; FILING DATE: 01-MAY-1997

; ATTORNEY/AGENT INFORMATION:

; NAME: OBLON, NORMAN F.

; REGISTRATION NUMBER: 24,618

; REFERENCE/DOCKET NUMBER: 2084-033-0

; TELECOMMUNICATION INFORMATION:

; TELEPHONE: (703) 413-3000

; TELEFAX: (703) 413-2220

; INFORMATION FOR SEQ ID NO: 3:

; SEQUENCE CHARACTERISTICS:

; LENGTH: 360 base pairs

; TYPE: nucleic acid

; STRANDEDNESS: single

; TOPOLOGY: linear

; MOLECULE TYPE: other nucleic acid

; FEATURE:

; DESCRIPTION: /desc = "synthetic DNA"

; NAME/KEY: CDS

; LOCATION: 1..360

; SEQUENCE DESCRIPTION: SEQ ID NO: 3:

US-09-306-780-3

Query Match 9.0%; Score 31; DB 9; Length 360;
 Best Local Similarity 100.0%; Pred. No. 5.2e-06;
 Matches 31; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 Qy 223 CCTGGGCTCAGCCGGGTACCTTGGCCCT 253
 ||||||||||||||||||||||||||||
 Db 224 CCTGGGCTCAGCCGGGTACCTTGGCCCT 254
 ||||||||||||||||||||||||||||

Search completed: April 15, 2005, 00:27:09
 Job time : 508 secs

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